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DEPARTMENT OF TRANSPORTATION

ASSESSMENT OF EXOTIC AND INVASIVE PLANTS ALONG ROADWAYS IN TENNESSEE

FINAL REPORT

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16. Abstract A comprehensive two-year study focused on identifying and assessing incidence, distribution, and impact of exotic and invasive plant species along interstate right-of-ways in Tennessee. Goals of this study were to: 1) identify exotic and invasive plant species established along interstates, 2) develop a species listing of the floral composition along interstates, 3) assess the potential threat of exotic and invasive plant species becoming an economical and environmental pest along highways, and 4) evaluate the potential opportunities for biological control of these exotic and invasive plants. Exotic and invasive plant species can degrade the natural composition of areas impacting native plants, reducing biological diversity, reducing agricultural productivity, increasing costs of agricultural production, and increasing costs of managing land areas. During this study, 538 plant species, representing 19.8% of the 2,715 plant species documented in TN, were found at qualitative and quantitative sampling sites along interstates. Of 538 plants found, 32.7% (n=176) were exotic species - thus, about 1 of every 3 plant species found along the interstate was an exotic species. More than 75% of the plants on the TN State Noxious Weed Seed List, and more than 60% of those listed by TN-EPPC, were found. These data suggest that the interstate system may serve as a corridor for the movement and establishment of exotic plant species. Improved weed management strategies can now be implemented to reduce the spread of problematic exotic and invasive plants from interstates to agricultural, natural, forest, and urban habitats. Incorporation of well designed biological control strategies into weed management efforts provide an environmentally friendly, cost efficient, and sustainable method of reducing certain exotic plant species. This study provides the first intensive, state-wide, interstate assessment of exotic and invasive plants conducted in the U.S. and provides a solid foundation for future management efforts against these plant pests.			
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PROJECT OVERVIEW

A comprehensive two-year study on the biodiversity of selected flora along interstate right-of-ways was conducted in Tennessee. This study primarily focused on identifying and assessing distribution of exotic plant species. The goals of this study were to: 1) identify exotic and invasive plant species that are established along interstates in Tennessee, 2) develop a species listing of the floral composition along selected interstates, 3) assess the potential threat of exotic and invasive plant species becoming an economical and environmental pest along highway right-of-ways, and 4) evaluate the potential opportunities for biological control of these exotic and invasive plants. An exotic plant species is one that has been introduced, accidentally or deliberately, into our area from another country. Although not all exotic species are invasive, some of these plant species, once established, become prolific reproducers and can quickly spread throughout land areas, especially natural areas. Exotic and invasive plant species can degrade the natural composition of areas greatly impacting native plants, reducing biological diversity, reducing agricultural productivity, increasing costs of agricultural production, and increasing costs of managing land areas, especially roadside maintenance. This project focused on exotic and invasive plant species to assess their incidence, spread, and impact along interstate systems in Tennessee.

METHODOLOGY AND EXPERIMENTAL PLAN

The specific objectives of this project were to: 1) identify, assess, and monitor exotic and invasive plant species that inhabit interstate right-of-ways, and to 2) compile a list, develop a computerized database, and provide a plant-impact ranking, related to feasibility of control. The proposed research consisted of the following tasks:

- 1. Assemble team to conduct experiments.**
- 2. Collect, identify, assess, and monitor exotic and invasive plant species that inhabit interstate right-of-ways.**
- 3. Analyze data.**
- 4. Compile exotic species lists, provide a plant-impact ranking, and develop a computerized database of these exotic and invasive plants.**
- 5. Provide reports outlining results of study.**

Task 1. Assemble team to conduct experiments. The initial emphasis was to assemble a research team to conduct the investigations outlined in Tasks 2-5. The research team consisted of the principal investigators, Drs. Paris L. Lambdin and Jerome F. Grant (The University of Tennessee, Knoxville), who each devoted 40% of their time to this project (no charges for time of investigators made to project!) and were responsible for interviewing and selecting qualified personnel, including the

research associate and part-time workers to assist in this project; Mr. Patrick Thurman and Mr. Mike Presley representing the Tennessee Department of Transportation, and Mr. Dick Duemler representing the Federal Highway Administration. Also, the principal investigators coordinated the efforts of professional collaborators, including plant specialists and biologists from USDA/APHIS, Tennessee Department of Agriculture, and The University of Tennessee who participated in this project. Other interested groups and stakeholders also were contacted and allowed to provide input into project development. The principal investigators served as liaison for providing information regarding progress of the project to Tennessee Department of Transportation and Federal Highway Administration personnel.

Task 2. Collect, identify, assess, and monitor exotic and invasive plant species that inhabit interstate right-of-ways. This task involved three methods of evaluating exotic and invasive plant species along roadways, primarily concentrating along the interstate system, in Tennessee. The three methods included: 1) qualitative assessment of invasive plants, 2) visual recognition and identification of invasive roadside vegetation, and 3) quantitative determination of species composition of invasive plant species.

Qualitative assessment of invasive plants [“qualitative sampling”]: During 1997, qualitative sampling was conducted twice at sites along the interstate systems in Tennessee [Figure 1]: 1) at 199 sites from early May through June 20 [I-155 was not sampled during spring 1997], and 2) at 203 sites from late August to early November. During 1998, qualitative sampling was conducted once [April to mid June] at 203 sites. These sampling sites, representing a diverse ecological and geographical range, were arranged to provide a thorough assessment of invasive plants throughout Tennessee. Sampling sites were positioned every 10 miles on each side of the interstate [I-24, I-40, I-65, I-75, I-81, I-155, and I-181/U.S. 23 (future I-26), and TN 840, which allowed us to sample every 5 miles along the interstate system. This sampling scheme provided a thorough view of the plant species that are found along the interstates in Tennessee. In fact, about 1,000 miles of interstate were sampled, which corresponded to about 2,000 automobile miles [since both sides of the interstate were sampled]. At each site, 1/10th mile was measured and sampled from road edge to right-of-way boundary or woods edge. Plants were identified, and state-wide distributional maps of selected invasive plant species were prepared.

Visual recognition and identification of invasive roadside vegetation [“windshield surveys”]: Additional visual surveys or windshield surveys were conducted between sites and ensured that all areas of vegetation along the primary research areas were visually scanned for infestation of invasive plant species. As project participants traveled from site to site, they scanned roadsides for large infestations of plant species. When infestations were sighted, project participants visited the location to determine the plant species and assess its relative level of infestation and establishment. Other biological plant data also were collected.

Quantitative determination of species composition of invasive plant species [“quantitative sampling”]: This method is incorporated to provide quantitative data on plant species and plant densities at selected sites. The quantitative survey was conducted from late July to late August 1997 and April to mid June 1998, when 21 sites were sampled along the interstate system in Tennessee. These quantitative sites were positioned approximately 50 miles apart along the interstates [I-24, I-40,

I-65, I-75, I-81, I-155, and U.S. 23 (future I-26)]. This sampling scheme covered all of the major physiographic provinces in Tennessee. At each site, 10 samples [one square meter each] were randomly selected along a zig-zag pattern within a 1/10th mile length of interstate from road edge to right-of-way boundary or woods edge once each year. Within each square-meter sample, plant density and percent cover were measured and recorded. Collection data included: location, distance from roadway, date and morphological data (e.g., stage of growth, etc.).

Plant Processing and Identification: Representative samples were taken to the laboratory where they were identified using standard taxonomic keys and data recorded. All identifications of unknown species were confirmed by plant taxonomists. Selected sites represented vegetation typical of the area to include representative environmental ranges throughout the state. Vegetation in the different sites will be compared to assess stability or the type of change that may be expected within the selected test regions. The relative abundance of the different plant species at all sites over a two-year period may suggest relative changes within each site. Other sites, regarded to be infested with unknown plant species, were identified with assistance from county agents, Tennessee Department of Agriculture, USDA/APHIS, and Tennessee Department of Transportation. These additional sites were periodically monitored to assess invasion and establishment of exotic plants.

Task 3. Analyze data. Based on data accumulated, an analysis was conducted to assess the exotic species present, along with their distribution and potential pest status. These studies were designed in consultation with The University of Tennessee Institute of Agriculture statistician. Data obtained from all experiments were quantitatively assessed following appropriate statistical procedures. ANOVA, "t" tests, or other mean separations and regression/correlation analyses were used where appropriate to determine differences among sites, species, etc. Data were entered into computer database programs to develop appropriate tables and graphs depicting a listing of exotic plants and their potential importance.

Task 4. Compile exotic species lists, provide a plant-impact ranking, and develop a computerized database of these exotic and invasive plants. Information on each of the plant species monitored and those plants collected for additional examination was incorporated into computer Excel files and maintained for analysis. This computerized listing of the plants was compared with listings developed for the state and later used to assess maintenance and control strategies. Data incorporated for each species included: species name, common name, family name, plant type, number of plants, seasonal development, and distribution. A ranking system was developed and used to assess the status of the various plant species within the right-of-ways. A listing of exotic and invasive plants found along the interstates was compiled; this listing was then compared with the Invasive Exotic Pest Plants in Tennessee List published by the Tennessee Exotic Pest Plant Council [TN-EPPC] and those listed as a Tennessee State Noxious Weed Seed [two categories: A) prohibited in seed or B) restricted in seed]. The detailed list compiled by TN-EPPC identifies and ranks invasive exotics that impact natural areas. This list, which was derived from evaluations, observations, and comments of resource managers, ecologists, and botanists across Tennessee, separates exotic and invasive plants into four categories: A) **Severe Threat** - Rank 1 - exotic plant species which possess characteristics of invasive species, spread easily into native plant communities, and displace native vegetation; B) **Significant Threat** - Rank 2 - exotic plant species which possess some invasive characteristics, but have less impact on native plant communities; C) **Lesser Threat** -

Rank 3 - exotic plant species which seem to principally spread and remain in disturbed areas, but do not readily invade natural areas; and D) *Watch List* - exotic plant species which may be a problem elsewhere, but more information is needed to provide a definitive classification for our area. This list serves as a tool to help resource managers and others to be aware of the many exotic and invasive plants in Tennessee. Because of its widespread use among numerous groups, agencies, and individuals, this list provides a foundation for comparison with those plants found along interstates in Tennessee. Many exotic plants may be found throughout Tennessee; however, it is important to consider that not all of these plants are invasive. Comparisons with previously compiled lists will provide information on those plants along interstates that are considered to be invasive and problematic. Percent occurrence of plant species along interstates also will be compiled and compared to assess the widespread invasiveness of exotic species. Taxonomic, biological, ecological, and distributional data were collected for selected species. The data collected and evaluated included information on the location of species and disturbance level of the growing area, the population level, association with other neighboring species, and potential threat to the roadway. This information was then evaluated and incorporated into the ranking system to assess the significance of impact and potential of the selected exotic species to obtain pest status.

At the conclusion of this study, a detailed listing of the exotic plant species established along interstates in Tennessee was compiled - the species were ranked, compared with established listings [as described above], and evaluated based on significance of impact. State distributional maps also were prepared to illustrate state-wide distribution of selected invasive and exotic plant species. These data identified and classified those exotics that are serious or lesser threats, as well as those that are easy or hard to control. Literature searches were conducted to evaluate feasibility of biological control against these exotic pests. In addition, observed or collected insect species that may represent potential biological control agents of selected exotic plants also were recorded.

Task 5. Provide reports outlining results of study. Quarterly and Annual Reports were prepared and submitted throughout the duration of the 24-month project. The findings of Tasks 1-5 were incorporated into a tentative Final Report, which was submitted to appropriate Tennessee Department of Transportation and Federal Highway Administration personnel for review and comment. A final, comprehensive report was then drafted and submitted. Incidence and distributional information also are available in a computerized database.

RESEARCH SUMMARY

[numbers correspond to Tasks outlined earlier]

Task 1. Assemble team to conduct experiments. Paris Lambdin and Jerome Grant served as Co-Principal Investigators of this research project. Several research assistants [Bridgette Sudbrink, Greg Wiggins, and Ed Wright] with The University of Tennessee also contributed part of their time to this project, which was developed in close collaboration with Patrick Thurman and Mike Presley representing the Tennessee Department of Transportation and Dick Duemler representing the Federal Highway Administration. Dr. Donald Sudbrink, a Postdoctoral Research Associate, was hired and devoted 100% of his time to this project for 16 months and then contributed as a Consultant for four additional months. Dr. Sudbrink had extensive experience working with plant species in Tennessee

and Alabama, as well as Africa, where he spent two summers conducting his Ph.D. research. In addition to his entomological training, Dr. Sudbrink brought a good background and knowledge in exotic plant species to this project and served as the botanical contact for this project. Because he had previously lived two years in Tennessee, he was very familiar with Tennessee roadways and plant species, and he also had developed a good networks of contacts in the state.

At the beginning of this project, contacts were made with Department of Transportation personnel in other states to discuss sampling methods, protocols, etc. for this type of research project. Discussions were held with Department of Transportation and/or Federal Highway Administration individuals in Iowa, Kansas, Minnesota, Missouri, Oklahoma, and Texas [these states are part of the Prairie Passage Project to promote native vegetation along I-35]. Because their survey was somewhat similar to what we planned to do, these discussions were important to fully develop, expand, and improve our project.

Periodic discussions also were held with the following individuals to assist in project development and improvement: Sharon Isakawa [USDA APHIS - TN], Roy Smith [Noxious Weed Coordinator - Texas Department of Transportation], Larry Flower [USDA APHIS/PPQ - TX], Kristine Johnson [National Park Service - Great Smoky Mountains], Roy Bullock [Extension Specialist - TN], Carl Nordman [Botanist, Natural Heritage Program - TN], Gerry Moore [Botanist, Vanderbilt University - TN], Brian Bowen [President, TN-Exotic Pest Plant Council], and Bonnie Harper-Lore [Federal Highway Administration].

Task 2. Collect, identify, assess, and monitor exotic and invasive plant species that inhabit interstate right-of-ways. Representative plant specimens were collected at each site and taken to the laboratory, where they were mounted, processed, and identified using standard taxonomic keys or by cooperating plant taxonomists. Identified plant specimens were labeled, and voucher specimens were deposited, where appropriate, in The University of Tennessee Herbarium.

OVERALL SUMMARY:

During this two-year, state-wide, intensive study, 538 plant species were found at qualitative (Table 2) and quantitative (Table 3) sampling sites along interstates in Tennessee - these species represented 19.8% of all of the 2,715 plant species documented in the state. Of the 538 plants found, 32.7% ($n=176$) were exotic species - thus, about 1 of every 3 plant species found along the interstate was an exotic species. The following sections provide additional details as to species incidence and percent cover at qualitative and quantitative sampling sites during each year of this study. More than 75% of the plants on the Tennessee State Noxious Weed Seed List, and more than 60% of those listed by the TN-EPPC, were found. Sixty-nine percent of the exotic species were found on one or the other exotic/invasive weed list during spring 1997.

Percent cover estimates for each plant species found at each quantitative sampling site along interstates in Tennessee (i.e., raw data for each site) are provided in Appendix I (1997) and Appendix II (1998). Lists of the top 30 most frequently occurring plant species at each qualitative sampling site along the interstate is provided in Appendix III (Spring 1997), Appendix IV (Fall 1997), and Appendix

V (Spring 1998). These data also are available in a database and will be used to generate county distributional maps.

Qualitative assessment of invasive plants [“qualitative sampling”]:

During this two-year study, 469 plant species were found at qualitative sites along interstates in Tennessee - 151 species were unique to spring sampling and 120 species were unique to fall sampling; in addition, 227 of these species were unique to qualitative sampling (i.e., they were not found at quantitative sites) (Table 2). Of the 469 plant species found, 36.0% (n=169) were exotic species (13.6% were considered to be invasive while 22.4% were considered to be non-invasive). A higher percentage of exotic species was found during spring 1997 (about 47.0%) than in fall 1997 (37.9%) or spring 1998 (38.0%). More species were found in fall 1997 (n=317) than in spring 1997 (n=264) or spring 1998 (n=234), and the number of exotic species found in spring and fall 1997 was similar. A listing of all identified plant species found at qualitative sites along interstates in Tennessee during 1997 and 1998 is provided in Table 4.

During spring 1997, 264 plant species were found along the interstate system in Tennessee. Of these, 47% (n=124) were exotic species. The top seven most frequently found species were exotics, and four of these were considered to be invasive (Table 5). In addition, of the top 30 most frequently found species, 63.3% (n=19) were exotics. During fall 1997, 60% and 56.7% of the top 10 and 30, respectively, most frequently found species were exotics (Table 6). A similar trend was observed in spring 1998 when 70% of the top 10 and 63.3% of the top 30 most frequently found species were exotics (Table 7).

The Tennessee Exotic Pest Plant Council [TN-EPPC] currently ranks 126 plants on their invasive exotic pest plant list for Tennessee. Of these, 50.8% (n=64) was found at qualitative sites along interstates in Tennessee. Of those species ranked as 1 (“severe threat”) or 2 (“significant threat”), 70.8% (n=17 of 24) and 56.0% (n=28 of 50), respectively, were recovered along interstates in Tennessee. It is interesting to note that ca. 60.8% of those exotic plants ranked as 1 or 2 were found at qualitative sites along interstates. Because these sites were located ca. every 5 miles on the interstate, this study provides an excellent overview of plant diversity, and suggests that these areas provide suitable habitat for establishment and survival of exotic species. Only 38.3% (n=18 of 47) and 20.0% (n=1 of 5) of those ranked as 3 (“lesser threat”) and 4 (“watch list”), respectively, were found at qualitative sites along interstates in Tennessee.

Listings of the state-ranked exotic and invasive plant species found at all qualitative sampling sites during this study are provided in Tables 8 and 9. Several of these state-ranked exotic species were found at many sites (for example, Japanese honeysuckle [ranked ‘1’ by TN-EPCC] was found at 153 sites in fall 1997 (Table 9). These listings provide a good overview of the potential threat or impact of these invasive plants at sites along the interstate. Area-wide management strategies should be investigated to reduce or prevent further spread of these state-listed exotic weeds.

Bull thistle (ranked ‘2’ by TN-EPPC) was found at 35% (n=71) of all sites from 37 counties; Canada thistle (ranked ‘2’ by TN-EPPC) was found at nine sites (4% of total) from three counties (new state records for Campbell, Hickman, and Washington Co.); purple loosestrife (ranked ‘1’ by TN-

EPPC) was found at two sites (Marion and Unicoi Co.); and spotted knapweed (ranked '2' by TN-EPPC) was found at ca. 15% (n=30) of all sites from 21 counties.

Visual recognition and identification of invasive roadside vegetation [”windshield surveys”]: Additional visual surveys or windshield surveys were conducted between sites and ensured that all areas of vegetation along the primary research areas were visually scanned for infestation of invasive plant species. As project participants traveled from site to site, they scanned roadsides for large infestations of plant species. When infestations were sighted, project participants visited the location to determine the plant species and assess its relative level of infestation and establishment. Locations were recorded to the nearest 1/10th mile. Although numerous species were observed using windshield surveys, all identified species also were found using qualitative or quantitative sampling and are discussed in those sections.

Quantitative determination of species composition of invasive plant species [“quantitative sampling”]: During this two-year study, 311 plant species were found at quantitative sites along interstates in Tennessee - 152 of these species were found both years, while 78 were unique to 1997 and 81 were unique to 1998 (Table 2). Of these, 33.4% (n=104) were exotic species - 55 species were common to both years, while 19 and 30 species were unique to 1997 and 1998, respectively. Thirty-nine tree species were identified, and only 3 species (7.7%) were exotics (Table 2). Sixty nine species were unique to quantitative sampling (i.e., they were not found in qualitative samples) -- of these, only seven species were exotics. A listing of all identified plant species and corresponding incidence, rankings, and estimates of percent cover for 1997 and 1998 is provided in Table 10.

Listings of the top 30 plant species according to percent cover estimates at all quantitative sites are provided in Tables 11 (1997) and 12 (1998). In 1997, 80% (n=8) of the top 10, and 50% (n=15) of the top 30, plant species with the highest percent cover at their respective sites was an exotic species (Table 11). A similar trend was observed in 1998, when 70% (n=7) of the top 10, and 53.3% (n=16) of the top 30, plant species with the highest percent cover at their respective sites was an exotic species (Table 12). These data suggest the invasive nature of many of these exotic species. In 1997, Nepal grass and Japanese honeysuckle covered about 10.5% (4 sites) and 5.9% (n=17 sites), respectively, of the ground at their respective sites. In 1998, Canada thistle covered about 9.60% of the surface at one site while Japanese honeysuckle covered about 5.4% of the surface at 17 sites.

Listings of the state-ranked exotic and invasive plant species found at all quantitative sampling sites during this study are provided in Tables 13, 14, and 15 (1997) and Tables 16, 17, and 18 (1998). Several of these state-ranked exotic species were found at many sites (for example, Japanese honeysuckle [ranked '1' by TN-EPCC] was found at 17 sites in 1997 (Table 13) and 1998 (Table 17). Percent cover of a few species increased from 1997 to 1998; for example, teasel covered ca. 1.8% of the ground at three sites in 1997, but covered ca. 9.3% of the ground surface at one site in 1998.

As mentioned earlier, the TN-EPPC currently ranks 126 plants on their invasive exotic pest plant list for Tennessee. Of these, 35.7% (n=45) was found at quantitative sites along interstates in Tennessee. Of those species ranked as 1 (“severe threat”) or 2 (“significant threat”), 58.3% (n=14 of 24) and 40.0% (n=20 of 50), respectively, were recovered along interstates in Tennessee. Only 19.2% (n=9 of 47) and 20.0% (n=1 of 5) of those ranked as 3 (“lesser threat”) and 4 (“watch list”),

respectively, were found at quantitative sites along interstates in Tennessee. Thirty ranked plant species were found both years, while only 7 and 8 unique, ranked species were found in 1997 and 1998, respectively.

Tasks 3 and 4 - Analyze data/Compile exotic species lists, provide a plant-impact ranking, and develop a computerized database of these exotic and invasive plants. Lists of plant species found at qualitative and quantitative sampling sites along interstates have been compiled and are presented in this document (see *List of Tables* and *List of Appendices*). Instead of developing a specific plant-impact ranking, plants found in this study were compared with already existing state lists of exotic and invasive plant species ranked and provided by TN-EPPC and those that are classified as a state noxious weed seed (a complete discussion of these lists and their derivation is provided in the *Methodology and Experimental Plan section, Task 4*). Listings of these comparisons are provided elsewhere in this document. Species ranked as 1 ("severe threat") possess characteristics of invasive species and spread easily into native plant communities and displace native vegetation, while species ranked as 2 ("significant threat") possess some invasive characteristics, but have less impact on native plant communities - these species may have the capacity to invade natural communities along disturbance corridors, or to spread from stands in disturbed sites into undisturbed areas, but have fewer characteristics of invasive species than 'rank 1' mentioned above. These invasive rankings provided by TN-EPPC provide a foundation for comparison of data collected during this two-year study. A computerized database of exotic and invasive plants found at each quantitative sampling site along the interstate has been developed and is available. Exotic and invasive plants found at qualitative sampling sites also are available in a spreadsheet.

Task 5. Provide reports outlining results of study. Quarterly and Annual Reports were provided periodically, and meetings were held in Nashville to discuss the status of this project. Information was provided by the Co-Principal Investigators as requested. In addition, numerous research and/or informational oral and poster presentations were given at various meetings during 1997, 1998, and 1999 to share the goals and results of this project with interested individuals. Examples of meetings attended included: the Southeastern Branch, Entomological Society of America, Tennessee Exotic Pest Plant Council, Southeast Exotic Pest Plant Council, and The University of Tennessee Agriculture Development Council. The following items provide an overview of the meetings or publications where this research project has been presented and discussed:

1997 [Presentations and Publications]

"Assessment of exotic and invasive plants along roadways in Tennessee: Potential for biological control" was presented at the Entomological Society of America National Meeting in Nashville, TN [poster].

"Exotic and invasive plants and associated insects along roadways in Tennessee" was presented at the Tennessee Entomological Society Annual Meeting in Nashville, TN [oral].

“Preliminary assessment of distribution of bull thistle and associated natural enemies along roadways in Tennessee” was presented at the Entomological Society of America National Meeting in Nashville, TN [poster].

“Proposed assessment of exotic and invasive plants along roadways in Tennessee: Potential for biological control” was presented at the Exotic Pests of Eastern Forests Conference [joint meeting with the Tennessee Exotic Pest Plant Council] in Nashville, TN [poster].

“Regional project directed at area-wide control of musk thistle in the southeastern United States: Potential benefit to forest borders and seedling orchards” was presented at the Southern Forest Insect Workers Conference in Charleston, SC [poster].

Regional project directed at area-wide control of musk thistle in the southeastern United States. Proceedings, Southern Nursery Association Research Conference 42:458-460.

1998 [Presentations and Publications]

“Biological control activities in Tennessee” was presented at the S-267 Regional Project Meeting in Griffin, GA [oral and written].

“Distribution of selected invasive exotic plant species and associated insects along roadways in Tennessee” was presented at the Entomological Society of America National Meeting in Las Vegas, NV [poster].

Exotic and invasive plants and associated insects along roadways in Tennessee. Proceedings of the Tennessee Entomological Society (The Firefly) 12:19.

“Exotic roadside weeds and associated insects in Tennessee” was presented at the Southeastern Branch Entomological Society of America Annual Meeting in Chattanooga, TN [poster].

“Incidence of exotic and invasive plants along roadways in Tennessee” was presented at the Tennessee Exotic Pest Plant Council Meeting in Chattanooga, TN [poster].

Infestation levels and seasonal incidence of the meadow spittlebug, *Philaenus spumarius* (L.), on musk thistle in Tennessee. Journal of Agricultural Entomology 15:83-91.

“Interstate highways in Tennessee: Corridors for the spread of invasive weeds and their natural enemies” was presented at the Tennessee Entomological Society Annual Meeting in Nashville, TN [oral].

“Thistle management using plant-feeding weevils” was presented at The University of Tennessee Beef and Forage Field Day in Knoxville, TN [poster].

"Update on biological control activities in the southeastern United States" was presented at the Customer Advisory Group Annual Meeting, National Biological Control Institute, in Landover, MD [oral].

"Weevil Rodeo/Roundup" was presented at a Field Demonstration with the Agricultural Extension Service near Columbia, TN, in Maury County [oral].

1999 [Presentations and Publications]

"Biological control activities in Tennessee" was presented at the S-267 Regional Project Meeting in Destin, FL [oral].

"Foreign invasion: The battle against unwanted pests. The University of Tennessee Agriculture Development Council, Nashville, TN [oral - invited].

"Integrated pest management: A guiding light to the next millennium" was presented at Clemson University, Clemson, SC [oral - invited].

Interstate highways in Tennessee: Corridors for the spread of invasive weeds and their natural enemies. Proceedings of the Tennessee Entomological Society (The Firefly) 13:15-16.

"Interstates as corridors for spread of exotic vegetation" was presented at the Tennessee Exotic Pest Plant Council Meeting in Oak Ridge, TN [poster].

"Native *Baris* spp. (Coleoptera: Curculionidae) associated with thistles along roadways in Tennessee" was presented at the Entomological Society of America National Meeting in Atlanta, GA [poster].

Not all weevils are evil, pp. 31-32. IN 1999 Integrated Pest Management in the Southern Region, Southern Region IPM Success Stories. University of Kentucky Cooperative Extension Service, Lexington, KY.

"Trouble in paradise" was presented at the Southern Horticultural Inspection Society Annual Meeting in Nashville, TN [oral - invited].

"Weevil Rodeo/Roundup" was presented at a Field Demonstration with the Agricultural Extension Service near Columbia, TN, in Maury County [oral].

Several individuals in other states also have contacted us about conducting similar exotic plant surveys in their state. Information on protocol, partnerships, etc. was shared with these individuals. Information and related materials also were provided to extension specialists in Arkansas for use in a Weevil Educational Program directed at federal, state, and private agencies/individuals. The purpose of this Program was to initiate a weevil release program similar to the one we developed and implemented in Tennessee to target another exotic and invasive weed - musk thistle. These contacts

illustrate the interest in management of exotic and invasive weeds through an integrated program incorporating area-wide use of biological control agents.

CONCLUSIONS

In Tennessee, 2,715 plant species have been documented; of these 507 are exotic species, comprising about 18.7% of the total flora in the state. During this two-year study, 538 plant species were found along interstate roadways; of these, 176 were exotic species, comprising about 32.7% of the total flora along interstates. Thus, the incidence of exotic plant species along interstates was about 2X the normal incidence in the state [χ^2 analysis indicated that this difference was significant ($\chi^2 = 49.3$, $P < 0.001$)]. These data suggest that the interstate system may serve as a corridor for the movement and establishment of exotic plant species.

As expected, exotic species were found at all qualitative and quantitative sampling sites. Although many exotic plant species were documented in this study, about 30 were classified as serious invasive species. However, the exotic species had altered the native species composition at several locations along the interstate. In fact, 70% of the top 30 most frequently encountered plant species were exotics, illustrating the invasive properties of some exotic plants. Quantitative data are available in a database and are provided as an appendix to this document. County distributional occurrence records are now available for exotic vegetation at sites along the interstate system in Tennessee.

It is interesting to note that ca. 60.8% of those exotic plants ranked as 1 ("severe threat") or 2 ("significant threat") by TN-EPPC were found at qualitative sites along interstates. Because these sites were located ca. every 5 miles on the interstate, this study provides an excellent overview of plant diversity, and suggests that these areas provide suitable habitat for establishment and survival of exotic species. However, little information is known about the incidence and rate of spread of these plants into other areas, especially agricultural and natural areas. Cooperative area-wide management strategies among federal, state, and private land owners should be investigated to reduce or prevent further spread of problematic exotic and invasive weeds. Because growth, survival, and reproduction of an exotic species may be affected by climate, soil type, and topography, the invasiveness of these species may vary greatly among state-wide locations.

Potential for Biological Control

Several exotic and invasive plant species were identified as potential targets for area-wide management, incorporating biological control efforts. These species included:

- ✓ bull thistle,
- ✓ Canada thistle,
- ✓ kudzu,
- ✓ purple loosestrife, and
- ✓ spotted knapweed.

Previous or on-going biological control efforts, as part of integrated weed management programs, have been implemented against each of the weeds listed above. Biological control efforts

against these troublesome weeds in Tennessee may reduce their spread and establishment in natural, agricultural, and urban areas. For example, spotted knapweed was commonly encountered in eastern Tennessee, where it was found at 93% of the sites along I-81. This invasive plant has been problematic in some of the northern and western states, where it has been established for many years. Although more recently established in our area, spotted knapweed also may pose a threat to land managers in Tennessee. It is interesting that established populations are doing so well along some roadways in eastern Tennessee; however, high numbers of this usually invasive plant have not developed in other areas and have not caused concern among many landowners and land managers. These data suggest that the invasiveness of a plant may vary from state to state and region to region; thus, biologies of these plants should be fully understood in an area to develop appropriate management strategies. Two biological control agents were found feeding on spotted knapweed and may be limiting its spread; however, no information is available on their impact on plant survival and reproduction in Tennessee. Both of these insect species represented new state records for Tennessee. Because successful biological control projects have been implemented against this weed pest in North America, a similar project also may provide economical and environmental benefits in Tennessee. Another notable exotic plant is Canada thistle, which was found along I-40 in Hickman County and along I-75 in Campbell County [these locations represented the first records of Canada thistle in Hickman County].

This study documented numerous plant species ranked by TN-EPCC as 1 (“severe threat”) or 2 (“significant threat”) occurring along the interstates in Tennessee. These types of exotic species possess characteristics of invasive species and, in some cases, can spread easily into native plant communities, displacing native vegetation and impacting plant and animal diversity, or into agricultural areas, impacting agricultural production. Management of these exotic and invasive plants along the interstate to prevent their spread into agricultural, natural, forest, and urban habitats will pose an interesting dilemma for the next decade. A few of these plants are widely planted by some individuals and agencies for various reasons [for example, crown vetch is planted as a cover crop, soil stabilizer, and nutrient enhancer]. As more native plant species are propagated and become available for use, their utilization by land managers will increase and reduce the use of some of the more problematic plant species. Reduction in plantings of exotic and invasive plants will improve opportunities for their management. Incorporation of well designed biological control strategies into weed management efforts can provide an environmentally friendly, cost efficient, and sustainable method of reducing certain exotic plant species. As our world trade and world travel continue to increase each year, we can expect to see the arrival of more exotic and invasive plant species into our landscape. This study provides the first intensive, state-wide, interstate assessment of exotic and invasive plants conducted in the United States and should provide a solid foundation for future management efforts directed against exotic and invasive plant species.

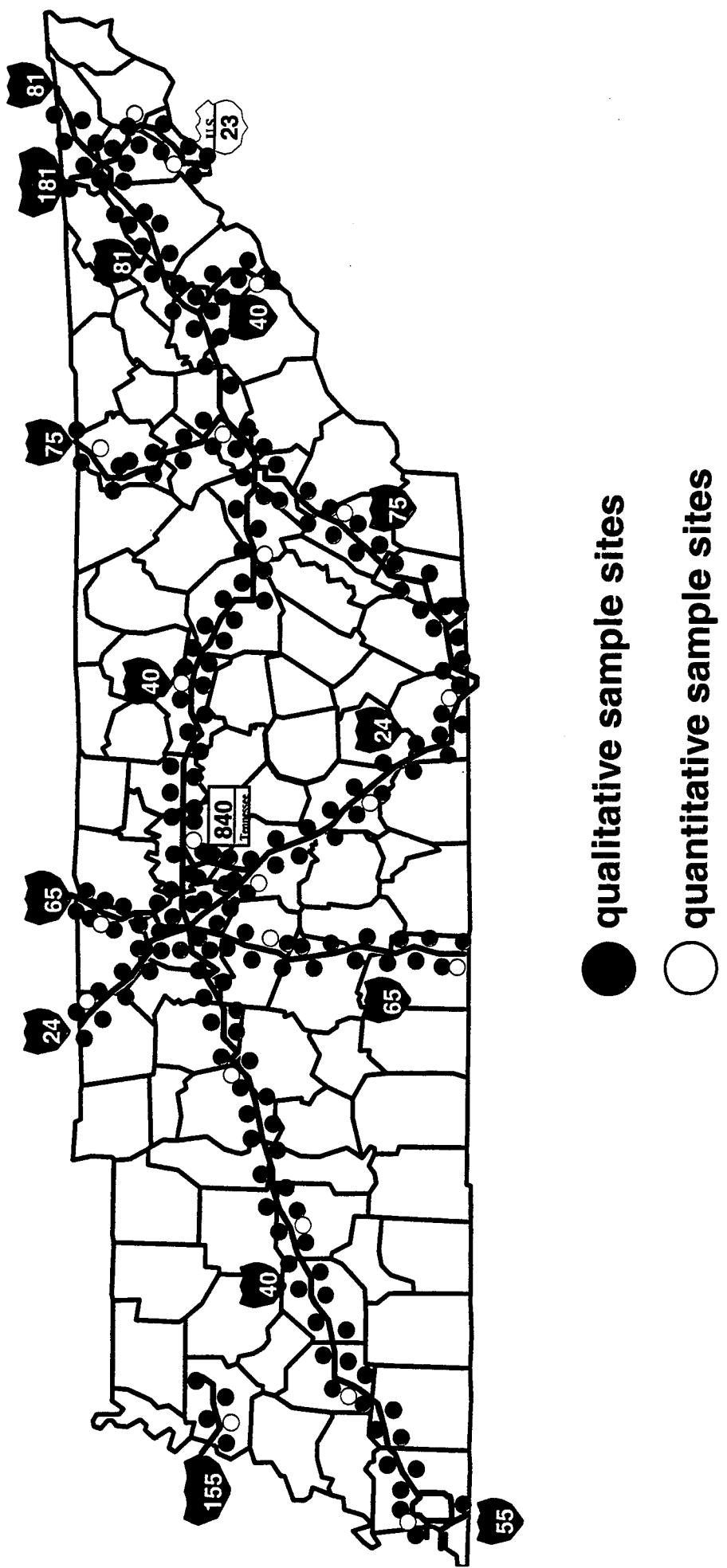


Figure 1. Locations of qualitative and quantitative sampling sites along interstates in Tennessee, 1997 and 1998.

Table 1. Number of qualitative and quantitative sampling sites along each interstate in Tennessee, 1997 and 1998.

Interstate	Number of Qualitative Sites	Number of Quantitative Sites
I-181/US23	11 ^a	1 ^b
TN-840	5	0
I-155^c	4	1
I-81	16	1
I-75	27	2
I-65	24	3
I-40	84	9
I-24	32	4
Total	203	21

a - I-181 - 4 sites; US23 - 7 sites.

b - Quantitative site was located on US23.

c - I-155 was not included in sampling during Spring 1997.

Table 2. Plant species found at all qualitative sites (n=203) along interstates in Tennessee, 1997 and 1998.

Season ¹	No. of Species	No. of Exotic Species	% of Exotic Species
Spring 1997	264	124	47.0
Fall 1997	317	120	37.9
Spring 1998	234	89	38.0

Total number of species collected = 469; total number of exotic species collected = 169; percent of all species that are exotic = 36.0%; 151 species were unique to spring sampling sites and 120 species were unique to fall sampling sites [200 species found in both spring and fall sampling].

1- Spring 1997 - early May through 20 June [I-155 was not included during Spring 1997]; Fall 1997 - late August to early November; Spring 1998 - April to mid June.

Table 3. Plant species found at all quantitative sites (n=21) along interstates in Tennessee, 1997 (late July to late August) and 1998 (April to mid June).

Year	No. of Species	No. of Unique Species	No. of Exotic Species	No. of Unique Exotic Species	% of Exotic Species
ALL SPECIES INCLUDED					
1997	230	79	74	19	32.2
1998	233	85	85	29	36.5
ALL SPECIES EXCLUDING TREES					
1997	201	75	71	18	35.3
1998	198	74	82	29	41.4
ONLY TREE SPECIES INCLUDED					
1997	29	4	3	1	10.3
1998	35	10	2	0	5.7

Total number of species collected = 311; total number of exotic species collected = 104; percent of all species that are exotic = 33.4%.

QUALITATIVE DATA

Table 4. Plant species found at qualitative sampling sites (n=203), Spring 1997, Fall 1997, and Spring 1998.

Species	Common name	Number of Sites			TN-State Nox. weed ²	TN-EPPC rank ³
		Spring 1997 ¹	Fall 1997	Spring 1998		
<i>Abutilon theophrasti</i>	velvetleaf		3			
<i>Acalypha ostryifolia</i>	hophornbeam copperleaf	3	1			
<i>Acalypha virginica</i>	Virginia copperleaf	5	71	X ⁴		
<i>Acer negundo</i>	boxelder	8				
<i>Acer rubrum</i>	red maple	11				
<i>Acer sp.</i>	maple	4				
<i>Achillea millefolium</i>	yarrow	46	22	X		
<i>Agalinus tenuifolia</i>	slender gerardia		3			
<i>Agrimonia parviflora</i>	agrimony		7	X		
<i>Agropyron repens</i> *	quackgrass	5			R	
<i>Agrostemma githago</i> *	corn cockle	2			R	
<i>Ailanthus altissima</i> *	tree-of-heaven	6	3			1
<i>Albizia julibrissin</i> *	mimosa	6	26			2
<i>Alliaria petiolata</i> *	garlic mustard	4				1
<i>Allium canadense</i>	wild onion	3		X	R	
<i>Allium vineale</i> *	field garlic	77	13	66	R	2
<i>Amaranthus palmeri</i> *	palmer amaranth		1			
<i>Amaranthus retroflexus</i> *	red-root pigweed		2			
<i>Amaranthus spinosus</i> *	spiny amaranth		1			
<i>Ambrosia artemisiifolia</i>	common ragweed	78	154	95		
<i>Ambrosia trifida</i>	giant ragweed	12	19	X		
<i>Ambrosia sp.</i>	ragweed		2			
<i>Amorpha fruticosa</i>	leadplant	2	2			
<i>Ampelamus albidus</i>	honeyvine milkweed			X		
<i>Ampelopsis arborea</i>	peppervine	3	15	X		
<i>Andropogon sp.</i>	broomsedge		1			
<i>Andropogon virginicus</i>	broomsedge	16	101	X		

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Anthaxanthum sp.</i>				X		
<i>Anthemis cotula*</i>	mayweed	10	3	X		
<i>Apocynum cannabinum</i>	hemp dogbane	21	27	X		
<i>Aquilegia canadensis</i>	columbine	2				
<i>Aralia spinosa</i>	devil's walkingstick	1	4			
<i>Arctium minus*</i>	common burdock	4	6	X		
<i>Arenaria patula</i>	glade sandwort	2		4		
<i>Aristida sp.</i>	three-awn	1		X		
<i>Artemisia annua*</i>	sweet wormwood		2			
<i>Artemisia sp.</i>	wormwood		4			
<i>Artemisia vulgaris*</i>	mugwort	1	5			2
<i>Arundinaria sp.</i>	bamboo		3	X		
<i>Arundo donax*</i>	elephant grass		1			2
<i>Asclepias amplexicaulis</i>	blunt-leaved milkweed	4				
<i>Asclepias sp.</i>	milkweed	14				
<i>Asclepias syriaca</i>	common milkweed	8	33	X		
<i>Asclepias tuberosa</i>	butterfly weed	4	5	X		
<i>Asclepias undulatus</i>				X		
<i>Asparagus officinalis*</i>	asparagus	2	3			
<i>Aster novae-angliae</i>	New-England aster		1			
<i>Aster sp.</i>	aster	24	177	19		
<i>Avena sativa*</i>	oats	1				
<i>Barbarea vulgaris*</i>	yellow rocket	1				
<i>Bidens aristosa</i>			44	X		
<i>Bidens bipinnata</i>	spanish needles		14			
<i>Bidens frondosa</i>	devil's beggarticks	2				
<i>Bidens polylepis</i>			18			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Bignonia capreolata</i>	crossvine	2	4	X		
<i>Brassica nigra</i> *	mustard			X		
<i>Brassica rapa</i> *	mustard			X	R	
<i>Brassica sp.</i> *	mustard	10	2	X	R	
<i>Bromus diandrus</i> *	ripgut brome	2				
<i>Bromus inermus</i>				X		
<i>Bromus japonicus</i> *	Japanese brome	8		2		2
<i>Bromus secalinus</i> *	cheat	5				2
<i>Bromus sp.</i> *	brome	151	13	36	R	2
<i>Bromus tectorum</i> *	downy brome	20		121		2
<i>Bupleurum rotundifolium</i> *	hounds ear	1				3
<i>Calystegia sepium</i> *	hedge bindweed	13	2	X	P	
<i>Campsis radicans</i>	trumpet creeper	41	66	12		
<i>Cannibus sativa</i> *	hemp		1			
<i>Capsella bursa-pastoris</i> *	shepard's purse	2				
<i>Cardamine hirsuta</i> *	hairy bittercress	4		X		
<i>Cardiospermum halicacabum</i> *	balloonvine		2		P	3
<i>Carduus nutans</i> *	musk thistle	72	13	49	R	1
<i>Carya sp.</i>	hickory	2				
<i>Celastrus orbiculatus</i> *	oriental bittersweet		3			2
<i>Celastrus scandens</i>	bittersweet		2			
<i>Celtis laevigata</i>	sugarberry			22		
<i>Celtis occidentalis</i>	hackberry			27		
<i>Cenchrus longispinus</i> *	longspine sandbur		1			
<i>Centaurea cyanus</i> *	bachelor's button	4				3
<i>Centaurea maculosa</i> *	spotted knapweed	16	20	21		2
<i>Ceratinum sp.</i>				X		

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Cerastium vulgatum*</i>	mouse-ear	5				
<i>Cercis canadensis</i>	redbud	12		8		
<i>Chaenorhinum minus*</i>	dwarf snapdragon	13				
<i>Chaerophyllum tainturieri</i>	chervil	11	27	X		
<i>Chamaecrista fasciculata</i>	partridge pea	14	19	X		
<i>Chenopodium album*</i>	lambsquarters	5	24	X		
<i>Chenopodium ambrosioides*</i>	mexican tea		5			
<i>Chloris virgata</i>	feather finger grass		2			
<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy	128	25	97		2
<i>Chrysanthemum sp.</i>	chrysanthemum		1			
<i>Cichorium intybus*</i>	chickory	38	40	39		3
<i>Cirsium altissimum</i>	thistle			X		
<i>Cirsium arvense*</i>	Canada thistle	1	3		P	2
<i>Cirsium carolinianum</i>				X		
<i>Cirsium discolor</i>	field thistle		105	102		
<i>Cirsium horridulum</i>				X		
<i>Cirsium sp.</i>	thistle	119		X		2
<i>Cirsium vulgare*</i>	bull thistle		54	30		2
<i>Citrullus vulgaris*</i>	watermelon		1			
<i>Clematis virginiana</i>	virgin's bower	2	16	X		
<i>Cocculus carolinus</i>	Carolina moonseed	8	19	X		
<i>Commelina communis</i>	dayflower			X		
<i>Commelina sp.</i>	dayflower	3	12			
<i>Conium maculatum*</i>	poison hemlock	18				3
<i>Conium sp.</i>				X		
<i>Convolvulus arvensis*</i>	field bindweed	24	8	X	P	
<i>Coreopsis major</i>				X		

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Coreopsis sp.</i>	coreopsis	16	11			
<i>Cornus sp.</i>	dogwood	2				
<i>Coronilla varia*</i>	crown vetch	11	12	10		2
<i>Cosmos sp.</i>				X		
<i>Cosmos sulfureus*</i>	cosmos		4		R	
<i>Crataegus sp.</i>			2	4		
<i>Croton arvense</i>	woolly croton		4			
<i>Croton monanthogynus</i>	prairie tea	1	45			
<i>Cuscuta sp.</i>	dodder		1		R	
<i>Cynanchum laeve</i>	honeyvine milkweed	8	30			
<i>Cynodon dactylon*</i>	bermuda grass	2	90	40		
<i>Cynoglossum virginianum</i>	wild comfrey		1			
<i>Cyperus esculentus</i>	yellow nutsedge	9	20		P	
<i>Cyperus sp.</i>	sedge	21	24	X		
<i>Dactylis glomerata*</i>	orchardgrass	65	2	116		
<i>Dalea (Petalostemum) gattingeri</i>	Gattinger's prairie clover	1	2			
<i>Datura stramonium*</i>	jimsonweed		1			
<i>Daucus carota*</i>	wild carrot	127	117	135		3
<i>Delphinium carolinianum</i>	glade larkspur	1				
<i>Desmanthus illinoensis</i>	prairie mimosa	1	16	3		
<i>Desmodium sp.</i>	desmodium	15	22	X		
<i>Dianthus armeria*</i>	Deptford pink	6		X		
<i>Digitaria sanguinalis*</i>	large crabgrass	5	80	2		
<i>Diodia sp.</i>	buttonweed	4	1	X		
<i>Diodia teres</i>	poorjoe	5	5			
<i>Diodia virginiana</i>	Virginia buttonweed		5			
<i>Dioscorea sp.</i>				X		

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Dioscorea villosa</i>	wild yam	3				
<i>Diospyros virginiana</i>	persimmon		5			
<i>Dipsacus fullonum*</i>	teasel	20	21	X		2
<i>Duchesnia indica*</i>	India mockstrawberry	5				
<i>Echinacea purpurea</i>	purple coneflower		1			
<i>Echinochloa crusgalli*</i>	barnyard grass	1	27	X		
<i>Eclipta indica</i>	eclipta		2			
<i>Eleagnus umbellata*</i>	autumn olive	7	9			1
<i>Elephantopus sp.</i>	elephant's foot		7			
<i>Eleusine indica*</i>	goose grass	1	11			
<i>Equisetum sp.</i>	horsetail	1	2			
<i>Eragrostis curvula*</i>	weeping lovegrass	12	8	X		
<i>Eragrostis pectinacea*</i>	feathery lovegrass		3	2		
<i>Eragrostis sp.</i>	lovegrass		14			
<i>Erechtites hieracifolia</i>	fireweed		40			
<i>Erianthus pecuroides</i>	feathergrass		18			
<i>Erigeron annuus</i>	daisy fleabane			84		
<i>Erigeron canadensis</i>	horseweed	3	90	X		
<i>Erigeron philadelphicus</i>	Philadelphia fleabane			X		
<i>Erigeron sp.</i>		122	27	16		
<i>Euonymus alata*</i>	burning bush		2			
<i>Euonymus americanus</i>	hearts-a-bustin'		1	X		
<i>Euonymus sp.</i>				X		
<i>Eupatorium capillifolium*</i>	dogfennel	2	4			
<i>Eupatorium coelostinum</i>	mistflower		21	X		
<i>Eupatorium fistulosum</i>	Joe-Pye-weed		6			
<i>Eupatorium hyssopifolium</i>	hyssop-leaved thoroughwort		18			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Eupatorium perfoliatum</i>	boneset	1	7			
<i>Eupatorium rotundifolium</i>	round leaved thoroughwort		2			
<i>Eupatorium rugosum</i>	white snakeroot			17		
<i>Eupatorium serotinum</i>	lateflowering thoroughwort			17	4	
<i>Eupatorium sp.</i>	winged eupatorium	16	3	X		
<i>Euphorbia corollata</i>	flowering spurge		2	X		
<i>Euphorbia dentata</i>	tooth leaf spurge	3	18	X		
<i>Euphorbia heterophylla var. graminifolia</i>	painted grass leaf poinsettia		1			
<i>Euphorbia maculata</i>	spotted spurge			118	X	
<i>Euphorbia sp.</i>	spurge	5	6	X		
<i>Euphorbia supina</i>	prostrate spurge	2	19	X		
<i>Fagopyrum esculentum*</i>	wild buckwheat		11			
<i>Festuca arundinacea*</i>	tall fescue	156	156	185		
<i>Fragaria virginiana</i>	wild strawberry	5	4	X		
<i>Fraxinus sp.</i>	ash	4				
<i>Galium aparine</i>	bedstraw	27		X		
<i>Galium sp.</i>	bedstraw		4	X		
<i>Galium triflorum</i>	fragrant bedstraw	28		X		
<i>Gaura biennis</i>	biennial gaura			4	X	
<i>Geranium carolinianum</i>	Carolina geranium	95	29	94		
<i>Geranium dissectum*</i>	dissected geranium	14	15	14		
<i>Geranium maculatum</i>	wild geranium	1		X		
<i>Geranium molle*</i>	dovesfoot geranium		1	X		
<i>Geum canadense</i>	white avens			X		
<i>Geum sp.</i>	avens		5	X		
<i>Gladiolus sp.*</i>	gladiolus	2	1			
<i>Glecoma hederacea*</i>	gill-over-the-ground		6			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Gleditsia triacanthos</i>	honey locust	1				
<i>Gnaphalium obtusifolium</i>	rabbit tobacco		18			
<i>Gnaphalium purpureum</i>	purple cudweed	17	6	X		
<i>Gonobolus carolinensis</i>	anglepod		4			
<i>Gossypium hirsutum</i>	volunteer cotton		3			
<i>Grindelia lanceolata</i>	lanceleaf gumweed		4	X		
<i>Hedysotis (Houstonia) sp.</i>	bluets	2				
<i>Helenium amarum</i>	bitter sneezeweed	4	17			
<i>Helianthus sp.</i>	sunflower		3	X		
<i>Hesperis matronalis*</i>	dame's rocket	2				2
<i>Hibiscus sp.</i>	hibiscus	2	3			
<i>Hieracium aurantiacum*</i>	orange hawkweed	1				
<i>Hieracium (pratense) caespitosum*</i>	yellow hawkweed	2				
<i>Hieracium sp.</i>	hawkweed	8	1			
<i>Hordeum jubatum*</i>	foxtail barley		5	X		
<i>Hordeum pusillum*</i>	little barley	61		86		
<i>Hordeum vulgare*</i>	barley	7	1	X		
<i>Hydrangea arborescens</i>	wild hydrangea	3		X		
<i>Hydrophyllum macrophyllum</i>	large-leaved waterleaf	8		X		
<i>Hydrophyllum sp.</i>	waterleaf		3			
<i>Hydrophyllum virginianum</i>	Virginia waterleaf	1		X		
<i>Hypericum perforatum*</i>	St. John's-wort	8	11	X		4
<i>Hypericum sp.</i>	St. John's wort (native)		8			
<i>Hystrichopoda patula</i>	bottlebrush grass			X		
<i>Impatiens capensis</i>	jewelweed	7	5	X		
<i>Ipomoea coccinea</i>	red morningglory		1			
<i>Ipomoea hederacea*</i>	ivyleaf morningglory	2	19			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Ipomoea lacunosa</i>	pitted morningglory		15			
<i>Ipomoea pandurata</i>	man root		4	X		
<i>Ipomoea purpurea*</i>	tall morningglory		3			
<i>Ipomoea sp.</i>	morningglory	2	3			
<i>Iva annua</i>	annual marshelder		23			
<i>Juncus sp.</i>	rush	27	7			
<i>Juncus tenuis</i>	slender rush		3	X		
<i>Juniperus virginiana</i>	eastern redcedar	113	14	136		
<i>Kummerowia stipulacea*</i>	Korean lespedeza	1	9	3		2
<i>Kummerowia striata*</i>	Japanese lespedeza		5			
<i>Lactuca canadensis</i>	wild lettuce		24	X		
<i>Lactuca floridana</i>	blue lettuce		2			
<i>Lactuca saligna*</i>	willow-leaved lettuce	1	52			
<i>Lactuca serriola*</i>	prickly lettuce	88	4	120		
<i>Lactuca sp.</i>	wild lettuce	2	4			
<i>Lagerstromia indica*</i>	crape myrtle		1			
<i>Lamium amplexicaule</i>	henbit		2			
<i>Lamium purpureum*</i>	red deadnettle	6		X		
<i>Lathyrus hirsutus*</i>	caley pea			3		
<i>Lathyrus latifolius*</i>	everlasting pea	9	3			
<i>Lepidium campestre*</i>	field pepperweed	1		X		
<i>Lepidium sp.</i>	pepperweed	13	24			
<i>Lepidium virginicum</i>	Virginia pepperweed	10	41	97		
<i>Lespedeza bicolor*</i>	bicolor lespedeza	8	1			2
<i>Lespedeza cuneata*</i>	sericea lespedeza	133	146	138		1
<i>Lesquerella lescurii</i>	bladderpod	1				
<i>Liatris squarrulosa</i>	blazing star		1			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Liatris sp.</i>	blazing star		1			
<i>Ligustrum japonicum*</i>	Japanese privet		1			
<i>Ligustrum sinense*</i>	Chinese privet	40	60	X		1
<i>Ligustrum sp.</i>	privet	10	36			
<i>Lindera benzoin</i>	spicebush			X		
<i>Liriodendron tulipifera</i>	tulip poplar	5				
<i>Lithospermum sp.</i>	gromwell			X		
<i>Lobelia appendiculata</i> var. <i>gattingeri</i>	Gattinger's lobelia	1				
<i>Lobelia cardinalis</i>	cardinal flower		2			
<i>Lobelia sp.</i>	lobelia		6			
<i>Lolium multiflorum*</i>	Italian ryegrass	8	3	20		
<i>Lonicera japonica*</i>	Japanese honeysuckle	140	153	150		1
<i>Lonicera maackii*</i>	bush honeysuckle	18	25	X		1
<i>Lonicera morrowii*</i>	honeysuckle	3	8			1
<i>Lonicera tartarica*</i>	bush honeysuckle		4			
<i>Lotus corniculatus*</i>	birdsfoot trefoil		1			
<i>Ludwigia alternifolia</i>	seedbox		2			
<i>Lysimachia sp.</i>	false loosestrife		1			
<i>Lythrum salicaria*</i>	purple loosestrife		2	X		
<i>Maclura pomifera</i>	osage orange	1	3			
<i>Malva neglecta*</i>	common mallow		1			
<i>Malvastrum hispidum</i>	yellow false mallow		3			
<i>Medicago lupulina*</i>	black medic	88	25	98		
<i>Medicago sativa*</i>	alfalfa	7	6	X		
<i>Melilotus alba*</i>	white sweet clover	64	12	3		2
<i>Melilotus officinalis*</i>	yellow sweet clover	27	6	25		2
<i>Melothria pendula</i>	creeping cucumber		10			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Mentha spicata</i>	spearmint		1			
<i>Microstegium vimineum*</i>	Nepal grass	7	42	X		1
<i>Miscanthus sinensis*</i>	zebra grass	1	3	X		2
<i>Mitchella repens</i>	partridge berry	1				
<i>Mollugo verticillata*</i>	carpetweed		4			
<i>Monarda fistulosa</i>		2	1			
<i>Morus rubra</i>	red mulberry	2				
<i>Muhlenbergia schreberi</i>	nimblewill		32	X		
<i>Myriophyllum spicatum*</i>	eurasian watermilfoil		1			1
<i>Nasturtium officinale*</i>	watercress			X		
<i>Nothoscordum bivalve</i>	false garlic		1			
<i>Oenothera biennis</i>	common evening primrose	3	4	3		
<i>Oenothera laciniata</i>	cutleaf evening primrose	13	22	X		
<i>Oenothera speciosa*</i>	showy evening primrose	1				
<i>Opuntia humifusa</i>	prickly pear cactus	9	7	X		
<i>Osmorhiza sp.</i>	sweet cicely			X		
<i>Oxalis stricta*</i>	yellow wood-sorrel	90	87	52		
<i>Panicum anceps</i>	two-edged panicum		5			
<i>Panicum capillare</i>	witchgrass		3			
<i>Panicum dichotomiflorum</i>	fall panicum		16			
<i>Panicum sp.</i>	panic grass	33	35	X		
<i>Papaver dubium*</i>	poppy	1				3
<i>Parthenocissus quinquefolia</i>	Virginia creeper	48	35	71		1
<i>Paspalum dilatatum*</i>	dallis grass	9	120	X		
<i>Paspalum floridanum</i>	paspalum		3			
<i>Paspalum urvillei*</i>	vasseygrass	1				
<i>Paspalum sp.</i>			1			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Passiflora incarnata</i>	maypops	19	16	X		
<i>Pastinaca sativa</i> *	wild parsnip	2				3
<i>Paulownia tomentosa</i> *	princess tree	7	7			1
<i>Pediomelum (Psoralea) subacaulis</i>	Nashville breadroot	1				
<i>Penstemon digitalis</i>	foxtail beard tongue	2				
<i>Penstemon hirsutus</i>				X		
<i>Penstemon sp.</i>	beard tongue	4		X		
<i>Perilla frutescens</i> *	beefsteak plant	1	11	X		
<i>Phalaris sp.</i>	canary grass	1		X		
<i>Phleum pratense</i> *	timothy	6	7			
<i>Physalis sp.</i>	clammy ground cherry		6			
<i>Physalis sp.</i>	smooth ground cherry	7	14	X		
<i>Phytolacca americana</i>	common pokeweed	25	57	X		
<i>Pinus sp.</i>	pine	5				
<i>Plantago aristata</i>	bracted plantain	13		X		
<i>Plantago lanceolata</i> *	lanceleaf plantain	158	155	155	R	
<i>Plantago major</i>	plantain	6	6	19		
<i>Plantago rugelii</i>	broadleaved plantain			X		
<i>Plantago virginica</i>	paleseed plantain	13		X		
<i>Poa pratensis</i> *	Kentucky bluegrass	14	3	46		
<i>Poa annua</i> *	annual bluegrass	3		X	R	
<i>Poa sp.</i>	bluegrass	19				
<i>Podophyllum peltatum</i>	mayapple			X		
<i>Polygonum aviculare</i> *	prostrate knotweed		24	X		
<i>Polygonatum biflorum</i>	Solomon's seal	3				
<i>Polygonum convolvulus</i>	wild buckwheat			X		
<i>Polygonum cuspidatum</i> *	Japanese knotweed	1	1	X		1

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Polygonum pensylvanicum</i>	Pennsylvania smartweed		3	X		
<i>Polygonum persicaria*</i>	lady's thumb	7	12	X		3
<i>Polygonum prostratum</i>				X		
<i>Polygonum sagittatum</i>	tearthumb		1			
<i>Polygonum sp.</i>	knotweed	4	25			
<i>Polymnia canadensis</i>	leaf cup		1			
<i>Polymnia uvedalia</i>	yellow leaf cup		1			
<i>Populus alba*</i>	white poplar	1	1			3
<i>Populus sp.</i>	aspen		1			
<i>Portulaca oleracea*</i>	common purslane	1	6			
<i>Potamogeton sp.</i>	pondweed		1			
<i>Potentilla canadensis</i>	dwarf cinquefoil	1				
<i>Potentilla norvegica</i>	rough cinquefoil	3				
<i>Potentilla recta*</i>	sulfur cinquefoil	13	10	19		
<i>Potentilla simplex</i>	oldfield cinquefoil		7	X		
<i>Prunella vulgaris*</i>	heal all	1	9			
<i>Prunus serotina</i>	black cherry	1				
<i>Pueraria lobata*</i>	kudzu	6	8	X		1
<i>Pycnanthemum spp.</i>	mountain mint		10			
<i>Pyracantha sp.*</i>	pyracantha	1				
<i>Pyrrhopappus carolinianus</i>	Carolina false dandelion	4	3	4		
<i>Quercus sp.</i>	oak	4				
<i>Ranunculus sp.*</i>	buttercup	21	9	25		
<i>Ratibida pinnata</i>	prairie coneflower		1			
<i>Rhexia sp.</i>	meadow beauty		2			
<i>Rhododendron sp.</i>	rhododendron	1				
<i>Rhus aromatica</i>	aromatic sumac		7			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Rhus copallina</i>	winged sumac	19	39	X		
<i>Rhus glabra</i>	smooth sumac	64	17	X		
<i>Rhus typhina</i>	staghorn sumac	13	8	X		
<i>Robinia pseudoacacia</i>	black locust	5		9		
<i>Rosa caroliniana</i>	Carolina rose			X		
<i>Rosa multiflora*</i>	multiflora rose	32	42	21		1
<i>Rosa sp.</i>	rose	9	30	X		
<i>Rubus sp.</i>	blackberry	122	126	143		
<i>Rudbeckia hirta</i>	black-eyed Susan	12	18	X		
<i>Rudbeckia triloba</i>	lobed coneflower		45			
<i>Ruellia caroliniensis</i>	hairy ruellia			1		
<i>Rumex acetosella*</i>	sheep sorrel	5		X	R	
<i>Rumex crispus*</i>	curly dock	33	29	52	R	
<i>Rumex obtusifolius*</i>	bitter dock	4	4	X	R	
<i>Rumex sp.</i>	dock	1				
<i>Sagittaria sp.</i>	arrowhead			X		
<i>Salix nigra</i>	black willow	2				
<i>Salvia lyrata</i>	lyre-leaf sage	24	14	X		
<i>Sambucus canadensis</i>	elderberry	14	16	X		
<i>Sassafrass albidum</i>	sassafrass	3				
<i>Scutellaria parvula</i>	small scutellaria	1				
<i>Scutellaria sp.</i>	heart skullcap	2				
<i>Secale cereale*</i>	rye	6				
<i>Sedum pulchellum</i>	lime stonecrop	24		X		
<i>Senecio sp.</i>	ragwort	38	6	8		3
<i>Senna marylandica</i>	Maryland senna		2			
<i>Senna obtusifolia*</i>	sicklepod		3		P	3

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Setaria faberii*</i>	giant foxtail		3			3
<i>Setaria (glauca) pumila*</i>	yellow foxtail	5	57	2		2
<i>Setaria viridis*</i>	green foxtail		148	X		2
<i>Sicyos angulatus</i>	bur-cucumber		1			
<i>Sida spinosa*</i>	prickly sida		2	X		
<i>Silene antirrhina</i>	sleepy catchfly	5				
<i>Silphium integrifolium</i>	rosin weed		1			
<i>Sisyrinchium sp.</i>	blue-eyed grass	15		X		
<i>Smilacina racemosa</i>	false Solomon's seal	1				
<i>Smilax sp.</i>	greenbriar	25	67	X		
<i>Solanum carolinense</i>	horse nettle	21	106	24	R	
<i>Solanum dulcamara*</i>	bittersweet	1				3
<i>Solanum nigrum*</i>	black nightshade		5			3
<i>Solidago sp.</i>	goldenrod	4	170	138		
<i>Sonchus arvensis</i>	spiny sow thistle			X		
<i>Sonchus asper*</i>	prickly sow thistle	11	18	70		
<i>Sonchus sp.</i>	sow thistle		24			
<i>Sorghum halapense*</i>	Johnsongrass	106	128	106	P	1
<i>Specularia sp.</i>				X		
<i>Specularia (Triodanis) perfoliata</i>	Venus' looking glass	24				
<i>Spiranthes lacera var. gracilis</i>	tender ladies tresses		2			
<i>Spiraea japonica*</i>				X		
<i>Spiraea sp.</i>	spirea	1	1			
<i>Sporobolus indicus*</i>	smutgrass		1			
<i>Stellaria media*</i>	common chickweed	27		6		
<i>Stellaria sp.</i>	chickweed		1	X		
<i>Strophostyles helvula</i>	wild bean		1			

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Strophostyles umbellata</i>	wild bean		1			
<i>Symporicarpos orbiculatus</i>	coral berry	3	31	14		
<i>Symporicarpos sp.</i>				X		
<i>Tagetes sp.</i>	marigold		1			
<i>Talinum calcaricum</i>	limestone fame flower	1				
<i>Taraxacum officinale*</i>	dandelion	44	91	85		
<i>Tephrosia virginiana</i>	goat's rue		1			
<i>Thlaspi arvense*</i>	field pennycress	1				
<i>Thuja occidentalis</i>	arborvitae		1			
<i>Torilis arvensis*</i>	hedge parsley	5		3		2
<i>Toxicodendron radicans</i>	poison ivy	73	40	113		
<i>Toxicodendron toxicarium</i>	poison oak	10	3	2		
<i>Toxicodendron vernix</i>	poison sumac	1	1			
<i>Tradescantia virginiana</i>	spiderwort	1				
<i>Tragopogon dubius*</i>	goat's beard	4	17	X		3
<i>Trichostema dichotomum</i>	blue curls		11			
<i>Trichostema sp.</i>	blue curls		2			
<i>Tridens flavus</i>	purpletop		14			
<i>Trifolium arvense*</i>	rabbit foot clover			X		
<i>Trifolium campestre*</i>	low hop clover	37	8	51		
<i>Trifolium hybridum*</i>	alsike clover	2				
<i>Trifolium incarnatum*</i>	crimson clover	1				
<i>Trifolium pratense*</i>	red clover	66	51	81		
<i>Trifolium repens*</i>	white clover	31	4	14		
<i>Triticum aestivum*</i>	wheat	4	2	X		
<i>Typha aurea</i>	cat-tail			X		
<i>Typha latifolia</i>	common cat-tail	9	17	X		

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Ulmus alata</i>	winged elm	8				
<i>Ulmus rubra</i>	slippery elm	8				
<i>Uniola (Chasmanthium) sp.</i>	inland sea oats		1	X		
<i>Urtica dioica*</i>	stinging nettle	1	1	X		3
<i>Urtica sp.</i>	stinging nettle			X		
<i>Vaccinium sp.</i>	blueberry	1	1			
<i>Valerianella radiata</i>	corn salad	45				
<i>Valerianella sp.</i>				X		
<i>Verbascum blattaria*</i>	moth mullein	3	20	X		
<i>Verbascum thapsus*</i>	woolly mullein	8	6	5		2
<i>Verbena alba</i>	white vervain			X		
<i>Verbena canadensis</i>	vervain	2	7			
<i>Verbena hastata</i>	blue vervain		5			
<i>Verbena simplex</i>	hoary vervain	27	14	X		
<i>Verbena urticifolia</i>	vervain		16			
<i>Verbesina alternifolia</i>	yellow wingstem		1			
<i>Verbesina sp.</i>	wingstem		22	X		
<i>Vernonia altissima</i>	ironweed		35	3		
<i>Vernonia gigantica</i>	tall ironweed		68			
<i>Vernonia sp.</i>	ironweed			X		
<i>Veronica arvensis*</i>	corn speedwell	26				
<i>Veronica peregrina*</i>	purslane speedwell	1				
<i>Veronica sp.</i>				X		
<i>Vicia augustifolia</i>				X		
<i>Vicia sativa ssp. nigra</i>	narrow-leaved vetch	10	9	27		
<i>Vicia tetrasperma*</i>	four-seed vetch	1				
<i>Vicia dasycarpa*</i>	smooth vetch	14	1	X		

Table 4. (Continued)

Species	Common name	Number of Sites			TN-State Nox. weed	TN-EPPC rank
		Spring 1997	Fall 1997	Spring 1998		
<i>Vinca major</i> *	large periwinkle	2				2
<i>Vinca minor</i> *	small periwinkle	1				2
<i>Viola sp.</i>	violet	5				
<i>Vitis sp.</i>	grapevine	14	69	105		
<i>Xanthium strumarium</i> *	common cocklebur		4	X	R	3
<i>Xanthocephalum dracunculoides</i>	broomweed		2			
<i>Yucca filamentosa</i>	yucca			X		
<i>Yucca sp.</i>	yucca		1			
<i>Zea mays</i> *	corn		3			

* -exotic species

1 - I-155 was not included in sampling during Spring 1997.

2 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

3 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

4 - 'X' indicates the species was found during Spring 1998; however, complete analysis of these data have not been finalized and total number of sites is not provided.

Table 5. Combined listing of top 30 most frequently occurring plant species found at qualitative sampling sites (n=199)¹ along each interstate in Tennessee, Spring 1997.

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox. weed ²	TN- EPPC ³ rank	
				24	40			65	75	81	TN 840	US 23		
					w	m	e							
158	76.3	<i>Festuca arundinacea*</i>	tall fescue	X		X		X	X	X	X	X		
158	76.3	<i>Plantago lanceolata*</i>	lanceleaf plantain	X		X		X	X	X	X	X	R	
151	72.9	<i>Bromus sp.*</i>	brome	X		X		X	X	X	X	X		
140	67.6	<i>Lonicera japonica*</i>	Japanese honeysuckle	X		X		X	X	X		X		1
133	64.3	<i>Lespedeza cuneata*</i>	sericea lespedeza	X		X		X	X	X	X	X		1
128	61.8	<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy	X		X		X	X	X	X	X		2
127	61.4	<i>Daucus carota*</i>	wild carrot	X		X		X	X		X	X		3
122	58.9	<i>Erigeron sp.</i>			X		X	X	X	X	X	X		
122	58.9	<i>Rubus sp.</i>	blackberry	X		X		X	X	X		X		
119	57.5	<i>Cirsium sp.</i>	thistle	X		X		X	X	X	X	X		2
113	54.6	<i>Juniperus virginiana</i>	eastern redcedar	X		X		X	X	X				
106	51.2	<i>Sorghum halapense*</i>	Johnsongrass	X		X		X		X	X		P	1
95	45.9	<i>Geranium carolinianum</i>	Carolina geranium	X		X		X	X		X			
90	43.5	<i>Oxalis stricta*</i>	yellow wood-sorrel	X		X		X	X	X				
88	42.5	<i>Lactuca serriola*</i>	prickly lettuce	X		X			X	X		X		
88	42.5	<i>Medicago lupulina*</i>	black medic	X		X			X	X		X		
78	37.7	<i>Ambrosia artemisiifolia</i>	common ragweed	X		X			X		X			
77	37.2	<i>Allium vineale*</i>	field garlic			X			X	X	X		R	
73	35.3	<i>Toxicodendron radicans</i>	poison ivy			X		X	X			X		
72	34.8	<i>Carduus nutans*</i>	musk thistle	X		X		X			X		R	1
66	31.9	<i>Trifolium pratense*</i>	red clover	X				X	X	X	X	X		
65	31.4	<i>Dactylis glomerata*</i>	orchardgrass	X		X			X	X	X	X		
64	30.9	<i>Melilotus alba*</i>	white sweet clover			X			X	X	X	X		2
64	30.9	<i>Rhus glabra</i>	smooth sumac	X		X			X	X				
61	29.5	<i>Hordeum pusillum*</i>	little barley	X		X		X						

Table 5. (Continued)

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox. weed	TN-EPPC rank
				24	40 w m e	65	75	81	TN 840	US 23			
48	23.2	<i>Parthenocissus quinquefolia</i>	Virginia creeper	X		X							
45	21.7	<i>Valerianella radiata</i>	corn salad			X		X					
44	21.3	<i>Taraxacum officinale*</i>	dandelion	X				X X			X		
41	19.8	<i>Campsis radicans</i>	trumpet creeper			X		X					
38	18.4	<i>Cichorium intybus*</i>	chickory					X X			X		3
38	18.4	<i>Senecio sp.</i>	ragwort			X				X		X	
37	17.9	<i>Trifolium campestre*</i>	low hop clover				X		X X	X X			
33	15.9	<i>Rumex crispus*</i>	curly dock				X X	X X				R	
32	15.5	<i>Rosa multiflora*</i>	multiflora rose		X						X		1
27	13.0	<i>Galium aparine</i>	bedstraw	X			X						
27	13.0	<i>Melilotus officinalis*</i>	yellow sweet clover	X			X			X			2
26	12.6	<i>Veronica arvensis</i>	corn speedwell	X			X						
25	12.1	<i>Smilax sp.</i>	greenbriar			X							
21	10.1	<i>Ranunculus sp.*</i>	buttercup	X				X					
21	10.1	<i>Solanum carolinense</i>	horsenettle						X X X			R	
16	7.7	<i>Andropogon virginicus</i>	broomsedge				X		X				
14	6.8	<i>Vitis sp.</i>	grapevine	X									
13	6.3	<i>Potentilla recta*</i>	sulfur cinquefoil						X		X		
12	5.8	<i>Cercis canadensis</i>	rebdud	X									
11	5.3	<i>Acer rubrum</i>	red maple								X		
11	5.3	<i>Chaerophyllum tainturieri</i>	chervil				X						
11	5.3	<i>Coronilla varia*</i>	crown vetch							X X			2
11	5.3	<i>Sonchus asper*</i>	prickly sow thistle			X							
10	4.8	<i>Lepidium virginicum</i>	Virginia pepperweed				X						
10	4.8	<i>Ligustrum sp.*</i>	privet				X						1
10	4.8	<i>Toxicodendron toxicarium</i>	poison oak			X							

Table 5. (Continued)

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox. weed	TN-EPPC rank
				24	40			65	75	81	TN 840		
		w	m	e									
10	4.8	<i>Vicia sativa</i> ssp. <i>nigra</i>	narrow-leaved vetch				X						
8	3.9	<i>Asclepias syriaca</i>	common milkweed						X				
8	3.9	<i>Hypericum perforatum</i> *	St. John's-wort						X	X			4
8	3.9	<i>Lolium italicum</i> *	Italian ryegrass							X	X		
8	3.9	<i>Verbascum thapsus</i> *	woolly mullein							X	X		2
6	2.9	<i>Ailanthus altissima</i> *	tree-of-heaven					X					
6	2.9	<i>Dianthus armeria</i> *	Deptford pink					X					
6	2.9	<i>Plantago major</i>	plantain							X			
5	2.4	<i>Liriodendron tulipifera</i>	tulip poplar								X		
5	2.4	<i>Robinia pseudoacacia</i>	black locust							X			
4	1.9	<i>Rumex obtusifolius</i> *	bitter dock							X	R		
4	1.9	<i>Tragopogon dubius</i> *	goat's beard						X				3
3	1.4	<i>Erigeron canadensis</i>	horseweed							X			
3	1.4	<i>Oenothera biennis</i>	common evening primrose							X			
3	1.4	<i>Symporicarpos orbiculatus</i>	coral berry							X			
2	1.0	<i>Lactuca</i> sp.	wild lettuce							X			

* -exotic species

1 - I-155 was not included in sampling during Spring 1997.

2 - Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

3 - Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Table 6. Combined listing of top 30 most frequently occurring plant species found at qualitative sampling sites (n=203) along each interstate in Tennessee, Fall 1997.

No. sites	% Occurrence	Species	Common name	Interstate									TN-State Nox.weed ²	TN-EPPC rank ³		
				24	40 ¹			65	75	81	155	TN 840	US 23			
					w	m	e									
177	89.4	<i>Aster sp.</i>	aster	X		X		X	X	X	X	X	X			
170	85.9	<i>Solidago sp.</i>	goldenrod	X		X		X	X	X	X	X	X			
156	78.8	<i>Festuca arundinacea*</i>	tall fescue	X		X		X	X	X	X	X	X			
155	78.3	<i>Plantago lanceolata*</i>	lanceleaf plantain	X		X		X	X	X	X	X	X	R		
154	77.8	<i>Ambrosia artemisiifolia</i>	common ragweed	X		X		X	X	X		X	X			
153	77.3	<i>Lonicera japonica*</i>	Japanese honeysuckle	X		X		X	X	X	X	X	X		1	
148	74.8	<i>Setaria viridis*</i>	green foxtail	X		X		X	X	X	X	X	X		2	
146	73.7	<i>Lespedeza cuneata*</i>	sericea lespedeza	X		X		X	X	X		X	X		1	
128	64.7	<i>Sorghum halapense*</i>	Johnsongrass	X		X		X	X	X	X	X	X	P	1	
126	63.6	<i>Rubus sp.</i>	blackberry	X		X		X	X	X						
120	60.6	<i>Paspalum dilatatum*</i>	dallis grass	X		X		X	X	X	X		X			
118	59.6	<i>Euphorbia maculata</i>	spotted spurge	X		X		X	X	X		X	X			
117	59.1	<i>Daucus carota*</i>	wild carrot	X		X		X	X	X	X	X	X		3	
106	53.5	<i>Solanum carolinense</i>	horsenettle	X		X		X	X	X	X		X	R		
105	53.0	<i>Cirsium discolor</i>	field thistle	X		X		X	X	X	X	X	X			
101	51.0	<i>Andropogon virginicus</i>	broomsedge	X		X		X	X	X			X			
91	46.0	<i>Taraxacum officinale*</i>	dandelion	X		X			X	X			X			
90	45.5	<i>Cynodon dactylon*</i>	bermuda grass	X		X		X			X					
90	45.5	<i>Erigeron canadensis</i>	horseweed	X		X		X				X	X			
87	43.9	<i>Oxalis stricta*</i>	yellow wood-sorrel	X		X		X	X		X		X			
80	40.4	<i>Digitaria sanguinalis*</i>	large crabgrass			X		X	X		X		X			
71	35.9	<i>Acalypha virginica</i>	Virginia copperleaf	X		X		X	X							
69	34.9	<i>Vitis sp.</i>	grapevine	X		X		X			X					
66	33.3	<i>Campsis radicans</i>	trumpet creeper	X		X		X	X							
57	28.8	<i>Setaria (glauca) pumila*</i>	yellow foxtail	X				X		X	X		X			
54	27.3	<i>Cirsium vulgare*</i>	bull thistle			X			X	X			X		2	

Table 6. (Continued)

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox.weed	TN-EPPC rank
				24 w	40 m	65 e	75	81	155	TN 840	US 23		
51	25.8	<i>Trifolium pratense*</i>	red clover		X			X	X		X		
45	22.7	<i>Croton monanthogynus</i>	prairie tea	X			X				X		
42	21.2	<i>Microstegium vimineum*</i>	Nepal grass		X		X						1
40	20.2	<i>Cichorium intybus*</i>	chickory				X	X		X	X		
40	20.2	<i>Toxicodendron radicans</i>	poison ivy		X			X	X				
36	18.2	<i>Ligustrum sp.*</i>	privet		X		X						1
29	14.7	<i>Rumex crispus*</i>	curly dock		X					X	R		
27	13.6	<i>Erigeron sp.</i>		X				X					
35	11.6	<i>Vernonia altissima</i>	ironweed				X	X	X				
20	10.1	<i>Centaurea maculosa*</i>	spotted knapweed					X	X				2
19	9.6	<i>Euphorbia supina</i>	prostrate spurge	X									
18	9.1	<i>Euphorbia dentata</i>	tooth leaf spurge	X									
18	9.1	<i>Bidens polylepis</i>		X									
17	8.6	<i>Rhus glabra</i>	smooth sumac				X				X		
17	8.6	<i>Eupatorium serotinum</i>	lateflowering thoroughwort				X				X		
17	8.6	<i>Helenium amarum</i>	bitter sneezeweed	X									
16	8.1	<i>Passiflora incarnata</i>	maypops				X						
14	7.1	<i>Juniperus virginiana</i>	eastern redcedar					X					
14	7.1	<i>Tridens flavus</i>	purpletop					X	X				
13	6.6	<i>Carduus nutans*</i>	musk thistle				X			X		R	1
13	6.6	<i>Allium vineale*</i>	field garlic					X	X	X			
12	6.1	<i>Melilotus alba*</i>	white sweet clover					X		X			2
12	6.1	<i>Coronilla varia*</i>	crown vetch							X	X		2
11	5.6	<i>Eleusine indica*</i>	goose grass				X						
10	5.1	<i>Potentilla recta*</i>	sulfur cinquefoil					X					
9	4.6	<i>Prunella vulgaris*</i>	heal all				X						

Table 6. (Continued)

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox.weed	TN-EPPC rank	
				24	40			65	75	81	155	TN 840		
				w m e										
9	4.6	<i>Kummerowia stipulacea*</i>	Korean lespedeza							X	X	X		
8	4.0	<i>Eragrostis curvula*</i>	weeping lovegrass						X					
6	3.0	<i>Plantago major</i>	plantain									X		
6	3.0	<i>Verbascum thapsus*</i>	woolly mullein									X		2
4	2.0	<i>Lactuca serriola*</i>	prickly lettuce								X			
4	2.0	<i>Xanthium strumarium*</i>	common cocklebur							X	X	R		3
4	2.0	<i>Rumex obtusifolius*</i>	bitter dock								X	R		
4	2.0	<i>Grindelia lanceolata</i>	lanceleaf gumweed							X				
4	2.0	<i>Oenothera biennis</i>	common evening primrose						X					
4	2.0	<i>Trifolium repens*</i>	white clover								X			
3	1.5	<i>Polygonum pensylvanicum</i>	Pennsylvania smartweed							X				
3	1.5	<i>Panicum capillare</i>	witchgrass							X				
3	1.5	<i>Setaria faberii*</i>	giant foxtail							X				
3	1.5	<i>Toxicodendron toxicarium</i>	poison oak							X				
3	1.5	<i>Senna obtusifolia*</i>	sicklepod							X		P		3
3	1.5	<i>Pyrrhopappus carolinianus</i>	Carolina false dandelion							X				
3	1.5	<i>Ailanthus altissima*</i>	tree-of-heaven								X			1
3	1.5	<i>Eragrostis pectinacea*</i>	feathery lovegrass						X					
2	1.0	<i>Amaranthus retroflexus*</i>	red-root pigweed							X				
2	1.0	<i>Triticum aestivum*</i>	wheat							X				
2	1.0	<i>Sida spinosa*</i>	prickly sida							X				
2	1.0	<i>Chloris virgata</i>	feather finger grass							X				
2	1.0	<i>Dactylis glomerata*</i>	orchardgrass							X				

*-exotic species

1-For Interstate 40: w=West Tennessee, m=Middle Tennessee, e=East Tennessee.

2-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

3-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Table 7. Combined listing of top 30 most frequently occurring plant species found at all qualitative sampling sites (n=203) along each interstate in Tennessee, Spring 1998.

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox. weed ¹	TN-EPPC rank ²	
				24	40			65	75	81	155	TN 840		
w	m	e												
185	91.1	<i>Festuca arundinacea*</i>	tall fescue	X	X	X	X	X	X	X	X	X		
155	76.4	<i>Plantago lanceolata*</i>	lanceleaf plantain	X	X	X	X	X	X	X	X	X	R	
150	73.9	<i>Lonicera japonica*</i>	Japanese honeysuckle	X	X	X	X	X	X	X	X	X		1
143	70.4	<i>Rubus sp.</i>	blackberry	X	X	X	X	X	X	X	X	X		
138	68.0	<i>Solidago sp.</i>	goldenrod	X	X	X	X	X	X	X	X	X		
138	68.0	<i>Lespedeza cuneata*</i>	sericea lespedeza	X	X	X	X	X	X	X		X	X	1
136	67.0	<i>Juniperus virginiana</i>	eastern redcedar	X	X	X	X	X	X	X		X		
135	66.5	<i>Daucus carota*</i>	wild carrot	X	X	X	X	X	X	X	X	X		3
121	59.6	<i>Bromus tectorum*</i>	downy brome		X	X	X	X	X	X	X	X	R	2
120	59.1	<i>Lactuca serriola*</i>	prickly lettuce	X	X		X	X	X			X	X	
116	57.1	<i>Dactylis glomerata*</i>	orchardgrass	X	X	X	X	X	X	X	X	X		
113	55.7	<i>Toxicodendron radicans</i>	poison ivy	X	X	X	X	X	X	X	X			
106	52.2	<i>Sorghum halapense*</i>	Johnsongrass	X	X		X	X		X	X	X	P	1
105	51.7	<i>Vitis sp.</i>	grapevine	X	X	X	X	X		X	X			
102	50.2	<i>Cirsium discolor</i>	field thistle	X	X	X	X	X	X		X	X		
98	48.3	<i>Medicago lupulina*</i>	black medic	X	X	X	X		X	X			X	
97	47.8	<i>Lepidium virginicum</i>	Virginia pepperweed	X	X	X	X		X	X	X		X	
97	47.8	<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy	X	X	X	X		X	X			X	2
95	46.8	<i>Ambrosia artemisiifolia</i>	common ragweed	X	X	X	X		X	X		X	X	
94	46.3	<i>Geranium carolinianum</i>	Carolina geranium	X	X	X	X	X					X	
86	42.4	<i>Hordeum pusillum*</i>	little barley	X	X	X	X	X					X	
85	41.9	<i>Taraxacum officinale*</i>	dandelion	X	X	X	X	X	X				X	
84	41.4	<i>Erigeron annuus</i>	daisy fleabane	X	X	X			X		X	X		
81	39.9	<i>Trifolium pratense*</i>	red clover		X	X	X		X	X	X	X	X	
71	35.0	<i>Parthenocissus quinquefolia</i>	Virginia creeper		X	X	X	X						
70	34.5	<i>Sonchus asper*</i>	prickly sow thistle		X	X	X	X	X				X	
66	32.5	<i>Allium vineale*</i>	field garlic		X	X	X		X	X		X		R
55	27.1	<i>Oxalis stricta*</i>	yellow wood-sorrel		X	X	X	X						
52	25.6	<i>Rumex crispus*</i>	curly dock	X	X	X	X							R
51	25.1	<i>Trifolium campestre*</i>	low hop clover						X	X	X	X	X	

Table 7. (Continued)

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox. weed	TN-EPPC rank		
				24	40			65	75	81	155	TN 840			
w	m	e													
49	24.1	<i>Carduus nutans</i> *	musk thistle	X	X	X	X	X				X	R	1	
46	22.7	<i>Poa pratensis</i> *	Kentucky bluegrass	X		X	X	X		X			X		
40	19.7	<i>Cynodon dactylon</i> *	bermuda grass		X	X					X				
39	19.2	<i>Cichorium intybus</i> *	chickory		X	X	X		X	X			X	3	
36	17.7	<i>Bromus sp.</i> *	brome	X									X	R	2
30	14.8	<i>Cirsium vulgare</i> *	bull thistle					X	X				X		2
27	13.3	<i>Celtis occidentalis</i>	hackberry					X			X				
27	13.3	<i>Vicia sativa</i> ssp. <i>nigra</i> *	narrow-leaved vetch	X						X					
25	12.3	<i>Melilotus officinalis</i> *	yellow sweet clover	X						X				2	
25	12.3	<i>Ranunculus</i> sp.*	buttercup	X								X			
24	11.8	<i>Solanum carolinense</i>	horsenettle					X		X	X				
22	10.8	<i>Celtis laevigata</i>	sugarberry	X											
21	10.3	<i>Centaurea maculosa</i> *	spotted knapweed		X	X				X				2	
21	10.3	<i>Rosa multiflora</i> *	multiflora rose					X				X	X	1	
20	9.9	<i>Lolium multiflorum</i> *	Italian ryegrass					X			X	X			
19	9.4	<i>Plantago major</i>	plantain					X					X		
19	9.4	<i>Potentilla recta</i> *	sulfur cinquefoil						X				X		
19	9.4	<i>Aster</i> sp.	aster					X				X			
16	7.9	<i>Erigeron</i> sp.						X				X			
14	6.9	<i>Trifolium repens</i> *	white clover					X							
14	6.9	<i>Geranium dissectum</i> *	geranium					X							
14	6.9	<i>Symporicarpus orbiculatus</i>	coral berry					X							
12	5.9	<i>Campsis radicans</i>	trumpet creeper					X							
10	4.9	<i>Coronilla varia</i> *	crown vetch								X	X		2	
9	4.4	<i>Robinia pseudoacacia</i>	black locust							X		X			
8	3.9	<i>Cercis canadensis</i>	redbud						X						
8	3.9	<i>Senecio</i> sp.	ragwort						X						
6	3.0	<i>Stellaria media</i> *	common chickweed									X			
5	2.5	<i>Verbascum thapsus</i> *	woolly mullein									X		2	
4	2.0	<i>Arenaria patula</i>	glade sandwort								X				
4	2.0	<i>Eupatorium serotinum</i>	lateflowering thoroughwort									X			

Table 7. (Continued)

No. sites	% Occurrence	Species	Common name	Interstate								TN-State Nox. weed	TN-EPPC rank
				24	40	65	75	81	155	TN 840	US 23		
w	m	e											
4	2.0	<i>Pyrrhopappus carolinianus</i>	Carolina false dandelion							X			
4	2.0	<i>Crataegus sp.</i>								X			
3	1.5	<i>Oenothera biennis</i>	common evening primrose							X			
3	1.5	<i>Kummerowia stipulacea*</i>	Korean lespedeza							X			3
3	1.5	<i>Desmanthus illinoensis</i>	prairie mimosa							X			
3	1.5	<i>Torilis arvensis*</i>	hedge parsley							X			2
3	1.5	<i>Vernonia altissima</i>	ironweed							X			
3	1.5	<i>Lathyrus hirsutus*</i>	caley pea							X			
3	1.5	<i>Melilotus alba*</i>	white sweet clover							X			2
2	1.0	<i>Toxicodendron toxicarium</i>	poison oak							X			
2	1.0	<i>Eragrostis pectinacea*</i>	feathery lovegrass							X			
2	1.0	<i>Bromus japonicus*</i>	Japanese brome							X			
2	1.0	<i>Setaria (glauca) pumila*</i>	yellow foxtail							X			2
2	1.0	<i>Digitaria sanguinalis*</i>	large crabgrass							X			

* -exotic species

1 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Table 8. Alphabetical listing of state-ranked exotic and invasive plant species found at all qualitative sampling sites (n=203) along interstates in Tennessee, Fall 1997.

Species	Common name	Interstate									No. sites	TN-State Nox. weed ²	TN-EPPC rank ³	
		40 ¹			65	75	81	155	TN 840	US 23				
		w	m	e										
<i>Ailanthus altissima*</i>	tree-of-heaven	X		X	X	X	X	X			X	41		
<i>Albizia julibrissin*</i>	mimosa	X	X	X	X	X	X					26		
<i>Allium vineale*</i>	field garlic	X	X	X	X		X	X	X	X	47	R	2	
<i>Artemisia vulgaris*</i>	mugwort	X	X		X		X					5		
<i>Arundo donax*</i>	elephant grass							X			1		2	
<i>Brassica spp.*</i>	mustard				X				X		2	R		
<i>Bromus spp.*</i>	brome	X		X		X	X			X	13	R	2	
<i>Calystegia sepium</i>	hedge bindweed					X	X				2	P		
<i>Cardiospermum halicacabum*</i>	balloonvine	X			X						2	P	3	
<i>Carduus nutans*</i>	musk thistle	X	X	X	X	X	X	X	X	X	54	R	1	
<i>Celastrus orbiculatus*</i>	oriental bittersweet			X	X						3		2	
<i>Centaurea maculosa*</i>	spotted knapweed	X				X	X				22		2	
<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy		X	X	X	X	X	X			25		2	
<i>Cichorium intybus*</i>	chickory	X	X	X	X	X	X	X		X	70		3	
<i>Cirsium arvense*</i>	Canada thistle			X		X					3	P	2	
<i>Cirsium vulgare*</i>	bull thistle	X	X	X		X	X			X	X	71		2
<i>Convolvulus arvensis</i>	field bindweed	X		X	X	X	X	X			8	P		
<i>Coronilla varia*</i>	crown vetch	X		X	X	X	X	X		X	X	38		2
<i>Cosmos sulfureus*</i>	yellow cosmos		X	X							4	R	3	
<i>Cuscuta spp.</i>	dodder		X								1	R		
<i>Cyperus esculentus</i>	yellow nutsedge	X	X	X	X	X	X	X			24	P		
<i>Daucus carota*</i>	wild carrot	X	X	X	X	X		X	X	X	117		3	
<i>Dipsacus fullonum*</i>	teasel	X		X	X	X	X	X		X	21		2	
<i>Eleagnus umbellata*</i>	autumn olive		X	X							9		1	
<i>Hypericum perforatum*</i>	St. John's-wort	X	X	X				X			11		4	

Table 8. (Continued)

Species	Common name	Interstate								No. sites	TN-State Nox. weed	TN-EPPC rank	
		24	40		65	75	81	155	TN 840				
		w	m	e									
<i>Kummerowia stipulacea*</i>	Korean lespedeza	X	X	X	X	X	X	X	X	52		3	
<i>Lespedeza bicolor*</i>	bicolor lespedeza			X						1		2	
<i>Lespedeza cuneata*</i>	sericea lespedeza	X	X	X	X	X	X		X	149		1	
<i>Ligustrum sinense*</i>	Chinese privet	X	X	X	X	X	X		X	60		1	
<i>Lonicera japonica*</i>	Japanese honeysuckle	X	X	X	X	X		X	X	153		1	
<i>Lonicera maackii*</i>	bush honeysuckle	X		X	X	X	X		X	25		1	
<i>Lonicera morrowii*</i>	bush honeysuckle	X		X	X					8		1	
<i>Lythrum salicaria*</i>	purple loosestrife	X							X	2		1	
<i>Melilotus alba*</i>	white sweet clover	X	X	X	X	X	X		X	66		2	
<i>Melilotus officinalis*</i>	yellow sweet clover	X		X	X				X	6		2	
<i>Mentha spicata*</i>	spearmint							X		1		3	
<i>Microstegium vimineum*</i>	Nepal grass	X	X	X	X	X			X	60		1	
<i>Misanthus sinensis*</i>	zebra grass				X			X		3		2	
<i>Myriophyllum spicatum*</i>	eurasian watermilfoil	X								1		1	
<i>Paulownia tomentosa*</i>	princess tree	X			X	X		X		X	7		1
<i>Plantago lanceolata*</i>	lanceleaf plantain	X	X	X	X	X	X	X	X	163	R		
<i>Polygonum cuspidatum*</i>	Japanese knotweed	X								1		1	
<i>Polygonum persicaria*</i>	lady's thumb	X	X	X	X	X		X		12		3	
<i>Populus alba*</i>	white poplar	X								1		3	
<i>Pueraria lobata*</i>	kudzu	X	X		X			X		8		1	
<i>Rosa multiflora*</i>	multiflora rose	X		X	X	X	X		X	42		1	
<i>Rumex crispus*</i>	curly dock	X	X	X	X	X	X	X	X	54	R		
<i>Rumex obtusifolius*</i>	bitter dock		X		X		X		X	20	R		
<i>Setaria (glauca) pumila*</i>	yellow foxtail	X	X	X	X	X		X	X	85		2	
<i>Setaria faberii*</i>	giant foxtail	X	X	X	X	X	X	X	X	37		3	
<i>Setaria viridis*</i>	green foxtail	X	X	X	X	X	X	X	X	148		2	

Table 8. (Continued)

Species	Common name	Interstate										No. sites	TN-State Nox. weed	TN-EPPC rank			
		24	40			65	75	81	155	TN	US						
			w	m	e					840							
<i>Solanum carolinense</i>	horsenettle	X	X	X	X	X	X	X	X	X	X	109	R				
<i>Solanum nigrum*</i>	black nightshade	X		X		X						5		3			
<i>Sorghum halapense*</i>	Johnsongrass	X	X	X	X	X	X	X	X	X	X	133	P	1			
<i>Tragopogon dubius*</i>	goat's beard					X						17		3			
<i>Urtica dioica*</i>	stinging nettle						X					1		3			
<i>Verbascum thapsus*</i>	woolly mullein	X	X	X	X	X		X		X	X	43		2			
<i>Xanthium strumarium*</i>	cocklebur	X	X	X	X	X	X	X	X	X		30	R	3			

* -exotic species

1 -For Interstate 40: w=West Tennessee, m=Middle Tennessee, e=East Tennessee.

2 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

3 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Table 9. State-ranked exotic and invasive plant species found at all qualitative sampling sites (n=203) along interstates in Tennessee, Fall 1997.

TN-EPPC rank ¹	TN-State Nox. weed ²	Species	Common name	Interstate								No. sites	
				24	40 ³			65	75	81	155	TN 840	
					w	m	e						
1		<i>Ailanthus altissima*</i>	tree-of-heaven	X		X	X	X	X	X		X	41
1	R	<i>Carduus nutans*</i>	musk thistle	X	X	X	X	X	X	X	X	X	54
1		<i>Eleagnus umbellata*</i>	autumn olive		X	X							9
1		<i>Lespedeza cuneata*</i>	sericea lespedeza	X	X	X	X	X	X	X		X	149
1		<i>Ligustrum sinense*</i>	chinese privet	X	X	X	X	X	X	X		X	60
1		<i>Lonicera japonica*</i>	Japanese honeysuckle	X	X	X	X	X		X	X	X	153
1		<i>Lonicera maackii*</i>	bush honeysuckle	X		X	X	X	X	X		X	25
1		<i>Lonicera morrowii*</i>	bush honeysuckle	X		X		X					8
1		<i>Lythrum salicaria*</i>	purple loosestrife	X								X	2
1		<i>Microstegium vimineum*</i>	Nepal grass	X	X	X	X	X	X			X	60
1		<i>Myriophyllum spicatum*</i>	eurasian watermilfoil	X									1
1		<i>Paulownia tomentosa*</i>	princess tree	X			X	X		X		X	7
1		<i>Polygonum cuspidatum*</i>	Japanese knotweed	X									1
1		<i>Pueraria lobata*</i>	kudzu	X	X		X			X			8
1		<i>Rosa multiflora*</i>	multiflora rose	X		X	X	X	X	X		X	42
1	P	<i>Sorghum halapense*</i>	Johnsongrass	X	X	X	X	X	X	X	X	X	133
2		<i>Albizia julibrissin*</i>	mimosa	X	X	X	X	X	X				26
2	R	<i>Allium vineale*</i>	field garlic	X	X	X	X		X	X	X	X	47
2		<i>Artemisia vulgaris*</i>	mugwort	X	X		X		X				5
2		<i>Arundo donax*</i>	elephant grass								X		1
2	R	<i>Bromus spp.*</i>	brome	X		X		X	X	X		X	13
2		<i>Celastrus orbiculatus*</i>	oriental bittersweet			X	X						3
2		<i>Centaurea maculosa*</i>	spotted knapweed	X					X	X			22
2		<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy		X	X	X	X	X	X			25
2	P	<i>Cirsium arvense*</i>	Canada thistle			X			X				3

Table 9. (Continued).

TN-EPPC rank	TN-State Nox. weed	Species	Common name	Interstate									No. sites	
				24	40			65	75	81	155	TN 840	US 23	
					w	m	e							
2		<i>Cirsium vulgare*</i>	bull thistle	X	X	X		X	X			X	X	71
2		<i>Coronilla varia*</i>	crown vetch	X		X	X	X	X	X		X	X	38
2		<i>Dipsacus fullonum*</i>	teasel	X		X	X	X	X	X			X	21
2		<i>Lespedeza bicolor*</i>	bicolor lespedeza			X								1
2		<i>Melilotus alba*</i>	white sweet clover	X	X	X	X	X	X	X		X	X	66
2		<i>Melilotus officinalis*</i>	yellow sweet clover	X		X		X					X	6
2		<i>Miscanthus sinensis*</i>	zebra grass				X					X		3
2		<i>Setaria (glauca) pumila*</i>	yellow foxtail	X	X	X	X	X			X	X	X	85
2		<i>Setaria viridis*</i>	green foxtail	X	X	X	X	X	X	X	X	X	X	148
2		<i>Verbascum thapsus*</i>	woolly mullein	X	X	X	X	X		X		X	X	43
3	P	<i>Cardiospermum halicacabum*</i>	balloonvine	X				X						2
3		<i>Cichorium intybus*</i>	chickory	X	X	X	X	X	X	X		X	X	70
3	R	<i>Cosmos sulfureus*</i>	yellow cosmos			X	X							4
3		<i>Daucus carota*</i>	wild carrot	X	X	X	X	X		X	X	X	X	117
3		<i>Kummerowia stipulacea*</i>	Korean lespedeza	X	X	X	X	X	X	X	X	X	X	52
3		<i>Mentha spicata*</i>	spearmint								X			1
3		<i>Polygonum persicaria*</i>	lady's thumb	X	X	X	X	X			X			12
3		<i>Populus alba*</i>	white poplar	X										1
3		<i>Setaria faberi*</i>	giant foxtail	X	X	X	X	X	X	X		X	X	37
3		<i>Solanum nigrum*</i>	black nightshade	X		X		X						5
3		<i>Tragopogon dubius*</i>	goat's beard						X					17
3		<i>Urtica dioica*</i>	stinging nettle							X				1
3	R	<i>Xanthium strumarium*</i>	cocklebur	X	X	X	X	X	X	X	X	X	X	30
4		<i>Hypericum perforatum*</i>	St John's-wort	X	X	X				X				11
	P	<i>Convolvulus arvensis</i>	field bindweed	X		X	X	X	X	X				8
	P	<i>Cyperus esculentus</i>	yellow nutsedge	X	X	X	X	X			X	X	X	117

Table 9. (Continued).

TN-EPPC rank	TN-State Nox. weed	Species	Common name	Interstate								No. sites	
				24	40			65	75	81	155	TN 840	
					w	m	e						
	R	<i>Brassica spp.</i> *	mustard			X					X		2
	R	<i>Calystegia sepium</i>	hedge bindweed						X	X			2
	R	<i>Cuscuta spp.</i>	dodder			X							1
	R	<i>Plantago lanceolata</i> *	lanceleaf plantain	X	X	X	X	X	X	X	X	X	163
	R	<i>Rumex crispus</i> *	curly dock	X	X	X	X	X	X	X	X	X	54
	R	<i>Rumex obtusifolius</i> *	bitter dock		X			X		X			X
	R	<i>Solanum carolinense</i>	horsenettle	X	X	X	X	X	X	X	X	X	109

* -exotic species

1 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

2 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

3 -For Interstate 40: w=West Tennessee, m=Middle Tennessee, e=East Tennessee.

QUANTITATIVE DATA

Table 10. Plant species and corresponding incidence, rankings, and estimates of percent cover at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1997 and 1998.

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed ²	TN-EPPC rank ³				
			40 ¹			65	75	81	155	US 23								
			w	m	e													
<i>Acalypha virginica</i>	Virginia copperleaf	1997	X	X	X	X	X				0.70	12						
		1998	X		X						0.65	2						
<i>Acer negundo</i>	boxelder	1997				X	X				0.13	3						
		1998	X	X	X	X	X				4.67	6						
<i>Acer rubrum</i>	red maple	1997	X								1.10	1						
		1998	X	X	X	X			X	X	3.29	7						
<i>Acer saccharinum</i>	silver maple	1998		X							1.00	1						
<i>Achillea millefolium</i>	yarrow	1997						X			1.10	1						
		1998	X	X		X			X		1.06	5						
<i>Agrimonia parviflora</i>	agrimony	1997			X						4.50	2						
		1998		X			X				4.25	2						
<i>Ailanthus altissima*</i>	tree-of-heaven	1997				X					2.00	1		1				
		1998				X					4.55	2		1				
<i>Albizia julibrissin*</i>	mimosa	1997				X					1.80	1		2				
		1998	X								6.50	1		2				
<i>Allium vineale*</i>	field garlic	1997			X	X					0.10	2	R	2				
		1998	X	X	X	X	X		X		0.38	10	R	2				
<i>Amaranthus palmeri*</i>	palmer amaranth	1997							X		0.02	1						
<i>Amaranthus retroflexus*</i>	red-root pigweed	1997								X	0.30	1						
<i>Ambrosia artemisiifolia</i>	common ragweed	1997	X		X	X	X	X	X		1.72	15						
		1998	X		X	X	X	X	X		1.19	11						
<i>Ambrosia trifida</i>	giant ragweed	1997				X			X		3.43	3						
		1998			X						4.00	1						
<i>Ampelopsis arborea</i>	peppervine	1998		X						X	1.50	2						

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank				
			40			65	75	81	155	US 23								
			w	m	e													
<i>Andropogon virginicus</i>	broomsedge	1997	X	X	X			X			5.88	5						
		1998	X	X	X	X		X			2.93	6						
<i>Anthemis cotula*</i>	mayweed chamomile	1998	X				X				0.25	2						
<i>Apocynum androsaemifolium</i>	dogbane	1997		X							1.40	1						
<i>Apocynum cannabinum</i>	hemp dogbane	1997		X	X		X	X	X	X	0.78	6						
		1998			X			X			0.95	2						
<i>Arctium minus*</i>	common burdock	1998			X						X	0.80	2					
<i>Arenaria patula</i>	glade sandwort	1998	X	X								3.75	2					
<i>Artemisia vulgaris*</i>	mugwort	1998				X					X	3.00	2		2			
<i>Asclepias syriaca</i>	common milkweed	1997				X				X		0.55	2					
		1998	X				X					0.50	2					
<i>Asclepias tuberosa</i>	butterfly weed	1997		X								0.50	1					
		1998		X								0.40	1					
<i>Aster dubosis</i>	bushy aster	1997		X								0.80	1					
<i>Aster dumosus</i>	white heat aster	1997	X					X				0.83	3					
<i>Aster novae-angliae</i>	New England aster	1997	X		X							0.65	2					
<i>Aster pilosus</i>	white heath aster	1997			X							1.30	1					
<i>Aster sp.</i>	aster	1997	X	X	X	X	X	X	X	X	X	1.99	16					
		1998	X	X	X	X		X	X	X	X	1.95	14					
<i>Astranthium integrifolium</i>	western daisy	1997				X						0.80	1					
<i>Barbarea vulgaris*</i>	yellow rocket	1998					X					0.80	1					
<i>Bidens aristosa</i>	tickseed	1997				X						0.20	1					
<i>Bidens sp.</i>	beggar's ticks	1997	X	X	X							1.53	3					
<i>Brassica rapa*</i>	birdsrape mustard	1998									X	0.40	1	R				

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank					
			40		65		75		81										
			w	m	e														
<i>Bromus japonicus*</i>	Japanese brome	1997		X							1.85	2			2				
		1998		X	X		X		X	X	1.73	8			2				
<i>Bromus sp.*</i>	brome	1997			X	X		X			0.33	3	R		2				
<i>Bromus tectorum*</i>	downy brome	1997	X		X						3.80	2			2				
		1998	X	X	X	X	X	X	X	X	3.06	14			2				
<i>Brunnichia ovata</i>	red vine	1998							X		0.50	1							
<i>Campsis radicans</i>	trumpet creeper	1997	X	X	X	X				X	2.79	7							
		1998	X	X						X	2.62	6							
<i>Cardamine hirsuta*</i>	hairy bittercress	1998		X		X					1.17	3							
<i>Carduus nutans*</i>	musk thistle	1997	X	X	X	X					1.28	4	R		1				
		1998	X		X	X	X	X			1.28	5	R		1				
<i>Carya sp.</i>	hickory (seedlings)	1998			X						0.50	1							
<i>Cassia fasciculata</i>	partridge pea	1997	X	X		X		X	X	X	2.47	7							
		1998	X	X							0.30	3							
<i>Celastrus orbiculatus*</i>	oriental bittersweet	1997			X						8.00	1			2				
		1998			X						3.00	1			2				
<i>Celtis occidentalis</i>	hackberry	1998	X	X	X	X	X				4.20	10							
<i>Celtis sp.</i>	hackberry	1997			X	X					2.13	3							
<i>Centaurea cyanus*</i>	bachelor's button	1998							X		0.20	1			3				
<i>Centaurea maculosa*</i>	spotted knapweed	1997				X			X		1.40	2			2				
		1998	X						X		5.75	2			2				
<i>Centaurea sp.</i>		1997			X						0.80	1							
<i>Cerastium vulgatum*</i>	mouse-ear	1998	X		X	X	X	X			0.94	7							
<i>Cercis canadensis</i>	redbud	1997		X		X					1.37	3			-				
		1998					X	X			4.00	2							

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank				
			40			65	75	81	155	US 23								
			w	m	e													
<i>Chaerophyllum tainturieri</i>	chervil	1998	X		X						2.70	2						
<i>Chenopodium album*</i>	lambsquarters	1998			X						0.10	1						
<i>Chloris virgata</i>	feather finger grass	1997		X							6.50	1						
		1998		X							1.00	1						
<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy	1998			X X		X X		X		1.53	7		2				
<i>Cichorium intybus*</i>	chickory	1997			X X		X X				0.82	5		3				
		1998	X	X	X		X X				2.03	7		3				
<i>Cirsium arvense*</i>	Canada thistle	1997					X				6.80	1	P	2				
		1998					X				9.60	1	P	2				
<i>Cirsium discolor</i>	field thistle	1997	X	X	X		X X	X			1.69	10						
		1998	X	X	X		X X				1.57	8						
<i>Cirsium sp.</i>	thistle	1997			X						0.50	1						
<i>Cirsium vulgare*</i>	bull thistle	1997	X		X	X				X	2.40	5		2				
		1998	X		X	X X	X	X	X	X	1.88	6		2				
<i>Clematis virginiana</i>	virgin's bower	1997		X		X					2.50	2						
		1998		X		X				X	2.90	3						
<i>Coccinia carolinus</i>	Carolina moonseed	1997	X	X			X				0.50	4						
		1998			X X						0.60	2						
<i>Commelinia sp.</i>	dayflower	1997	X			X					2.90	2						
<i>Convolvulus arvensis*</i>	field bindweed	1997				X		X			X	2.63	4	P				
		1998				X				X	1.15	2	P					
<i>Conyza canadensis</i>	horseweed	1997					X				0.50	1						
<i>Coreopsis major</i>	coreopsis	1997				X					0.50	1						
		1998				X					2.40	1						
<i>Coreopsis sp.</i>	coreopsis	1998		X							2.00	1						

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank				
			40			65	75	81	155	US 23								
			w	m	e													
<i>Coreopsis tinctoria</i>	coreopsis	1997	X								1.05	2						
<i>Cornus florida</i>	flowering dogwood	1997	X					X			2.90	2						
		1998	X	X	X			X			4.04	5						
<i>Cornus sp.</i>	dogwood	1997							X		1.50	1						
<i>Coronilla varia*</i>	crown vetch	1997			X		X			X	9.13	3			2			
		1998					X			X	13.55	2			2			
<i>Cosmos sulfureus*</i>	cosmos	1998			X						0.50	1	R		3			
<i>Crataegus oxyacantha</i>		1997	X								2.00	1						
<i>Croton monanthogynus</i>	prairie tea	1997	X	X	X	X					2.64	6						
		1998	X	X	X	X					1.05	4						
<i>Cuscuta sp.</i>	dodder	1997			X						0.20	1	R					
		1998		X			X				0.11	2	R					
<i>Cynanchum laeve</i>	honeyvine milkweed	1997			X				X		0.35	2						
		1998	X		X						0.25	2						
<i>Cynodon dactylon*</i>	bermuda grass	1997	X	X	X	X	X		X		9.38	11						
		1998	X	X	X	X	X		X		9.05	10						
<i>Cyperus esculentus</i>	yellow nutsedge	1997	X		X		X		X		1.92	5	P					
		1998	X							X	0.70	2	P					
<i>Cyperus sp.</i>	sedge	1997	X			X					X	1.97	3					
		1998			X		X		X			0.47	3					
<i>Dactylis glomerata*</i>	orchardgrass	1997	X			X	X	X				1.23	4					
		1998	X		X	X	X	X		X		2.13	12					
<i>Daucus carota*</i>	wild carrot	1997	X	X	X	X		X	X		X	2.18	9		3			
		1998	X	X	X	X	X	X	X		X	1.05	14		3			
<i>Desmanthus illinoensis</i>	prairie mimosa	1997	X							X		2.57	3					

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24	40			65	75	81	155				
			w	m	e									
<i>Desmodium perplexum</i>	beggar's ticks	1997	X						X			1.60	2	
<i>Desmodium sp.</i>	desmodium	1997	X	X	X					X		1.66	5	
		1998	X	X	X							1.20	3	
<i>Dianthus armeria*</i>	Deptford pink	1998		X	X							0.30	2	
<i>Digitaria sanguinalis*</i>	large crabgrass	1997	X	X	X	X	X		X	X	2.09	9		
		1998		X		X	X	X		X	0.51	5		
<i>Diodia teres</i>	poorjoe	1997	X					X				1.27	3	
<i>Diodia virginiana</i>	Virginia buttonweed	1997		X	X							2.90	2	
		1998		X	X				X			0.37	3	
<i>Dioscorea sp.</i>	wild yam	1997			X							2.50	1	
<i>Diospyros virginiana</i>	persimmon	1997		X								1.80	1	
		1998		X								2.67	3	
<i>Dipsacus fullonum*</i>	teasel	1997			X	X		X				1.83	3	2
		1998				X						9.30	1	2
<i>Draba verna</i>	whitlow grass	1998				X						0.30	1	
<i>Echinacea purpurea</i>	purple coneflower	1997			X							0.30	1	
		1998			X							0.50	1	
<i>Echinochloa crusgalli*</i>	barnyard grass	1997				X				X	4.75	2		
<i>Elephantopus tomentosus</i>	elephant's foot	1998		X								6.00	1	
<i>Eleusine indica*</i>	goose grass	1997		X		X	X					1.73	3	
<i>Eragrostis curvula*</i>	weeping lovegrass	1997			X	X						2.75	2	
		1998		X	X				X			1.03	3	
<i>Eragrostis pectinacea*</i>	feathery lovegrass	1997	X	X	X	X	X	X	X	X		3.11	14	
		1998	X			X	X	X	X			1.38	5	
<i>Eragrostis sp.</i>	lovegrass	1997	X	X	X			X	X	X		3.71	7	

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24	40 w m e	65	75	81	155	US 23					
<i>Erechtites hieracifolia</i>	fireweed	1997			X						1.00	1		
		1998			X						0.10	1		
<i>Erianthus alopecuroides</i>	beardgrass	1997		X							4.75	2		
		1998		X							2.67	3		
<i>Erigeron annuus</i>	daisy fleabane	1997		X							0.20	1		
		1998	X	X X X				X	X X	1.13	12			
<i>Erigeron canadensis</i>	horseweed	1997	X	X							0.35	2		
<i>Erigeron philadelphicus</i>	Philadelphia fleabane	1998			X	X					1.50	2		
<i>Erigeron sp.</i>		1997				X					0.20	2		
<i>Euonymus americanus</i>	hearts-a-bustin'	1998	X								2.50	1		
<i>Eupatorium coelostinum</i>	mistflower	1997	X								5.00	1		
		1998	X								0.50	1		
<i>Eupatorium fistulosum</i>	Joe-Pye-weed	1997		X X X				X		2.13	4			
		1998			X					0.80	1			
<i>Eupatorium leucolepis</i>	white bracted thoroughwort	1997	X								0.50	1		
<i>Eupatorium perfoliatum</i>	boneset	1997	X	X							0.30	2		
		1998	X								0.30	1		
<i>Eupatorium rotundifolium</i>	round leaved thoroughwort	1998	X		X						0.80	2		
<i>Eupatorium serotinum</i>	lateflowering thoroughwort	1997	X	X X		X					0.84	5		
		1998	X	X X X		X					0.70	5		
<i>Eupatorium sessilifolium</i>	upland boneset	1997						X			0.50	1		
<i>Eupatorium sp.</i>	winged eupatorium	1997	X	X X		X					1.67	6		
		1998		X					X	1.00	2			
<i>Euphorbia commutata</i>	wood spurge	1997			X						0.15	2		
<i>Euphorbia corollata</i>	flowering spurge	1997	X								0.40	1		

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			40			65	75	81	155	US 23				
			w	m	e									
<i>Euphorbia dentata</i>	tooth leaf spurge	1997	X		X	X	X	X			0.78	8		
		1998	X	X	X	X					0.44	5		
<i>Euphorbia maculata</i>	spotted spurge	1997	X		X	X	X	X	X	X	0.91	9		
		1998								X	0.50	1		
<i>Euphorbia supina</i>	prostrate spurge	1997	X	X	X		X			X	0.81	8		
		1998	X		X						0.60	3		
<i>Fagopyrum esculentum*</i>	wild buckwheat	1997		X							3.40	1		
<i>Fagopyrum sp.</i>	buckwheat	1997	X								0.40	1		
<i>Festuca arundinacea*</i>	tall fescue	1997	X	X	X	X	X	X	X	X	14.40	21		
		1998	X	X	X	X	X	X	X	X	18.77	21		
<i>Fragaria sp.</i>	strawberry	1997				X					0.50	1		
<i>Fragaria virginiana</i>	wild strawberry	1997		X	X						0.80	3		
		1998		X	X	X				X	1.20	4		
<i>Fraxinus pennsylvanica</i>	green ash	1998		X			X				3.50	2		
<i>Fraxinus sp.</i>	ash	1997				X	X				0.20	2		
		1998				X			X		2.75	2		
<i>Galinsoga sp.</i>		1997				X					0.10	1		
<i>Galium aparine</i>	bedstraw	1998	X	X		X	X				1.30	6		
<i>Galium sp.</i>	bedstraw	1997			X						1.70	1		
		1998		X	X						1.37	3		
<i>Gaura biennis</i>	biennial gaura	1997			X						X	2.45	2	
<i>Geranium carolinianum</i>	Carolina geranium	1998	X		X	X	X	X			X	0.70	12	
<i>Geranium dissectum*</i>	dissected geranium	1998	X		X	X	X					0.88	4	
<i>Geranium maculatum</i>	wild geranium	1998				X						1.50	1	

Table 10. (Continued)

Species	Common name	Year	Interstate							% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24	40 w m e	65	75	81	155	US 23				
<i>Geum canadense</i>	white avens	1997	X			X				1.50	2		
		1998		X X		X				1.77	3		
<i>Geum sp.</i>	avens	1997		X X X						0.33	3		
		1998		X						0.30	1		
<i>Geum virginianum</i>	Virginia avens	1997	X							0.50	1		
<i>Glecoma hederacea*</i>	gill-over-the-ground	1997				X				0.20	1		
<i>Gnaphalium purpureum</i>	purple cudweed	1998	X	X						0.23	3		
<i>Grindelia lanceolata</i>	lanceleaf gumweed	1998		X						1.30	1		
<i>Helenium amarum</i>	bitter sneezeweed	1997	X	X						2.17	3		
<i>Helianthus angustifolius</i>	sunflower	1997		X						0.50	1		
<i>Helianthus sp.</i>	sunflower	1997			X					1.00	1		
<i>Hibiscus sp.</i>	hibiscus	1998						X		1.50	1		
<i>Hieracium carolinianum</i>	Carolina false dandelion	1997					X			0.50	1		
<i>Hordeum pusillum*</i>	little barley	1998	X	X						0.20	2		
<i>Hypericum perforatum*</i>	St. John's-wort	1997		X			X			0.95	2		4
		1998					X			0.50	1		4
<i>Hypericum prolificum</i>	St. John's-wort	1998		X						1.00	1		
<i>Hypericum punctatum</i>	St. John's-wort	1997			X					0.60	1		
<i>Hypericum sp.</i>	St. John's-wort	1998	X	X						0.95	2		
<i>Ipomoea lacunosa</i>	pitted morningglory	1997						X		0.20	1		
<i>Ipomoea pandurata</i>	man root	1997		X						0.50	1		
		1998	X							0.80	1		
<i>Juglans nigra</i>	black walnut	1997				X				0.50	1		
		1998			X					4.00	1		

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			40			65	75	81	155	US 23				
			w	m	e									
<i>Juncus effusus</i>	rush	1997				X					1.00	1		
<i>Juncus tenuis</i>	slender rush	1997	X		X	X	X		X		0.58	6		
		1998	X		X	X					1.80	5		
<i>Juniperus virginiana</i>	eastern redcedar	1997	X		X			X			6.77	3		
		1998	X	X	X	X	X		X		2.11	10		
<i>Kummerowia stipulacea*</i>	Korean lespedeza	1997	X	X	X	X		X	X	X	3.20	10		3
		1998	X						X	X	0.60	3		3
<i>Lactuca canadensis</i>	wild lettuce	1997		X	X	X	X				0.45	4		
		1998				X					0.40	1		
<i>Lactuca serriola*</i>	prickly lettuce	1997	X								0.75	2		
		1998	X	X			X	X			0.30	4		
<i>Lactuca sp.</i>	wild lettuce	1997				X					1.10	1		
		1998	X		X	X	X				1.18	5		
<i>Lamium purpureum*</i>	red deadnettle	1998				X					3.10	2		
<i>Lathyrus hirsutus*</i>	caley pea	1998							X		1.00	1		
<i>Lepidium campestre*</i>	field pepperweed	1998	X								0.20	1		
<i>Lepidium virginicum</i>	Virginia pepperweed	1997	X		X						0.77	3		
		1998	X	X	X		X		X		0.81	9		
<i>Lespedeza cuneata*</i>	sericea lespedeza	1997	X	X	X	X	X	X	X		6.12	14		1
		1998	X	X	X	X		X	X		4.89	13		1
<i>Lespedeza sp.</i>		1997	X								4.20	2		
<i>Ligustrum sinense*</i>	Chinese privet	1997	X	X	X	X	X	X			2.96	9		1
		1998					X	X			7.05	2		1
<i>Ligustrum vulgare*</i>	common privet	1997			X	X					1.55	2		1
		1998	X	X	X	X					1.50	5		1

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24	40			65	75	81	155				
			w	m	e									
<i>Liquidambar styraciflua</i>	sweet gum	1997	X	X				X				1.47	3	
		1998	X	X						X		4.50	4	
<i>Liriodendron tulipifera</i>	tulip poplar	1997					X					0.30	1	
		1998	X	X	X		X	X				1.48	6	
<i>Lithospermum arvense</i>	corn gromwell	1998	X			X						0.95	2	
<i>Lolium italicum*</i>	Italian ryegrass	1997								X		1.30	1	
<i>Lolium multiflorum*</i>	Italian ryegrass	1998	X	X		X			X	X		3.78	5	
<i>Lonicera japonica*</i>	Japanese honeysuckle	1997	X	X	X	X	X	X	X	X		5.95	17	
		1998	X	X	X	X	X	X	X			5.42	17	
<i>Lonicera maackii*</i>	bush honeysuckle	1998			X							1.00	1	
<i>Lonicera morrowii*</i>	honeysuckle	1997				X						1.00	1	
<i>Ludwigia alterniflora</i>	seedbox	1997	X									0.30	1	
<i>Lysimachia nummularia</i>	moneywort	1997						X				2.00	1	
		1998						X				0.50	1	
<i>Lythrum salicaria*</i>	purple loosestrife	1997								X		6.50	1	
		1998								X		5.00	1	
<i>Medicago lupulina*</i>	black medic	1997	X		X	X						0.17	3	
		1998	X	X	X	X	X		X			1.84	10	
<i>Medicago sativa*</i>	alfalfa	1997	X		X							1.80	2	
		1998	X									1.80	1	
<i>Melilotus alba*</i>	white sweet clover	1997			X							3.00	1	
		1998		X								1.00	1	
<i>Melilotus officinalis*</i>	yellow sweet clover	1997			X					X		0.40	2	
		1998				X	X	X				1.03	3	

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank				
			40			65	75	81	155	US 23								
			24	w	m													
<i>Melothria pendula</i>	creeping cucumber	1997	X								0.25	2						
		1998	X								0.30	1						
<i>Microstegium vimineum*</i>	Nepal grass	1997	X		X	X					10.50	4			1			
		1998	X	X	X		X				3.85	6			1			
<i>Mitchella repens</i>	partridge berry	1998	X								0.50	1						
<i>Monarda fistulosa</i>		1997				X					0.20	1						
<i>Morus rubra</i>	red mulberry	1998		X	X						X	3.00	3					
<i>Muhlenbergia sp.</i>	nimblewill	1998			X							0.80	1					
<i>Oenothera biennis</i>	common evening primrose	1997		X	X	X						2.00	3					
		1998		X			X	X				0.93	3					
<i>Onosmodium molle</i>	false gromwell	1998			X							0.50	1					
<i>Opuntia humifusa</i>	prickly pear cactus	1997	X		X							1.15	2					
		1998	X									1.80	1					
<i>Oxalis stricta*</i>	yellow wood-sorrel	1998	X	X	X	X	X	X	X			0.51	13					
		1997	X	X	X	X	X			X	X	0.39	14					
<i>Panicum anceps</i>	two-edged panicum	1998									X	2.50	1					
<i>Panicum sp.</i>		1997							X			3.20	1					
<i>Panicum capillare</i>	witchgrass	1998	X									0.35	2					
<i>Panicum sp.</i>	panic grass	1997	X	X		X		X	X	X		1.54	8					
		1998	X	X		X		X	X			1.30	7					
<i>Parthenocissus quinquefolia</i>	Virginia creeper	1997		X	X	X	X	X	X	X		1.19	11					
		1998	X	X	X	X		X	X			1.95	8					
<i>Paspalum dilatatum*</i>	dallis grass	1997	X	X	X	X	X	X	X	X		3.33	15					
		1998		X	X	X						8.52	4					

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24	40 w m e	65	75	81	155	US 23					
<i>Paspalum laeve</i>		1997		X							3.30	1		
<i>Paspalum sp.</i>		1997		X							6.00	1		
<i>Passiflora incarnata</i>	maypops	1997	X	X							0.90	3		
		1998	X	X	X		X				1.02	4		
<i>Passiflora sp.</i>	passion flower	1997				X					1.15	2		
<i>Paulownia tomentosa*</i>	princess tree	1997			X						0.50	1		1
<i>Perrilla frutescens*</i>	beefsteak plant	1997			X						3.70	1		
<i>Phalaris sp.</i>	canary grass	1997			X					X	2.31	2		
		1998			X					X	4.65	2		
<i>Phleum pratense*</i>	timothy	1997					X				0.50	1		
<i>Phyla lanceolata</i>	fog fruit	1998						X			0.50	1		
<i>Physalis heterophylla</i>	ground cherry	1997		X							0.30	1		
<i>Physalis sp.</i>	smooth ground cherry	1997	X		X	X			X		0.89	7		
		1998		X							0.80	1		
<i>Pinus echinata</i>	shortleaf pine	1997	X								0.60	1		
		1998				X					2.00	1		
<i>Pinus sp.</i>	pine	1997			X	X					0.15	2		
		1998			X	X					5.75	2		
<i>Pinus taeda</i>	loblolly pine	1998	X								15.90	1		
<i>Pinus virginiana</i>	Virginia pine	1998	X		X						1.00	2		
<i>Plantago aristata</i>	bracted plantain	1998	X								2.80	1		
<i>Plantago lanceolata*</i>	lanceleaf plantain	1997	X	X	X	X	X	X	X		2.54	21	R	
		1998	X	X	X	X	X	X	X		4.33	21	R	
<i>Plantago major</i>	plantain	1997	X		X					X	1.93	3		
		1998		X	X						1.03	3		

Table 10. (Continued)

Species	Common name	Year	Interstate									% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			40			65	75	81	155	US 23					
			w	m	e										
<i>Plantago rugelii</i>	broadleaf plantain	1997		X								0.50	1		
		1998	X									3.60	1		
<i>Plantago virginica*</i>	paleseed plantain	1998	X	X								0.20	2		
<i>Platanus occidentalis</i>	sycamore	1997				X						0.50	1		
<i>Poa annua*</i>	annual bluegrass	1998	X			X						1.05	2	R	
<i>Poa pratensis*</i>	Kentucky bluegrass	1997				X	X					2.80	2		
		1998	X	X	X	X	X	X			X	3.85	12		
<i>Podophyllum peltatum</i>	mayapple	1998				X						2.00	1		
<i>Polygonum aviculare*</i>	prostrate knotweed	1997			X	X	X					0.40	3		
		1998	X			X						1.20	3		
<i>Polygonum cespitosum*</i>	bunchy knotweed	1997				X						1.00	1		2
<i>Polygonum convolvulus*</i>	wild buckwheat	1997		X	X							0.90	2		
		1998		X	X							0.70	2		
<i>Polygonum pensylvanicum</i>	Pennsylvania smartweed	1997			X	X						0.90	2		
<i>Polygonum sp.</i>	knotweed	1997									X	0.10	1		
<i>Populus deltoides</i>	eastern cottonwood	1998							X			1.50	1		
<i>Portulaca oleracea *</i>	common purslane	1997	X					X	X			0.63	3		
		1998	X									0.10	1		
<i>Potentilla canadensis</i>	dwarf cinquefoil	1997					X					5.00	1		
		1998						X				5.50	1		
<i>Potentilla recta*</i>	sulfur cinquefoil	1997	X									1.10	1		
		1998	X	X	X							5.67	3		
<i>Potentilla simplex</i>	oldfield cinquefoil	1997	X		X	X						1.80	4		
		1998	X			X						1.20	3		

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank				
			24	40			65	75	81	155	US 23							
				w	m	e												
<i>Prunella vulgaris*</i>	heal all	1997	X			X			X	X		1.46	5					
		1998				X						2.60	1					
<i>Prunus serotina</i>	black cherry	1997	X	X		X	X					0.90	4					
		1998	X	X	X	X	X					2.70	7					
<i>Prunus sp.</i>	cherry	1998		X								12.00	1					
<i>Pueraria lobata*</i>	kudzu	1997			X							11.80	1		1			
		1998			X							9.00	1		1			
<i>Pycnanthemum incanum</i>	mountain mint	1997				X						1.00	1					
<i>Quercus alba</i>	white oak	1998				X						1.00	1					
<i>Quercus prinus</i>	chestnut oak	1998			X							0.80	1					
<i>Quercus rubra</i>	red oak	1997	X									0.10	1					
		1998		X	X					X		2.00	3					
<i>Ranunculus recurvatus</i>	hooked buttercup	1998				X						1.30	1					
<i>Ranunculus sp.*</i>	buttercup	1998	X			X			X			0.28	4					
<i>Raphanus raphanistrum*</i>	wild radish	1997									X	1.00	1					
<i>Rhamnus caroliniana</i>	Carolina buckthorn	1997	X		X				X			2.00	3					
		1998	X		X			X	X			2.07	4					
<i>Rhexia marylandica</i>	Maryland deergrass	1997	X									2.00	1					
<i>Rhus aromatica</i>	aromatic sumac	1997			X					X		1.35	2					
<i>Rhus copallina</i>	winged sumac	1997	X			X	X			X		1.68	5					
		1998		X		X						2.87	3					
<i>Rhus glabra</i>	smooth sumac	1997	X	X				X		X		1.80	4					
		1998	X		X		X	X				1.68	7					
<i>Robinia pseudoacacia</i>	black locust	1997					X		X			4.35	2					
		1998		X				X	X			3.80	4					

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24 w	40 m	65 e	75	81	155	US 23					
<i>Rosa caroliniana</i>	Carolina rose	1998	X								4.00	1		
<i>Rosa multiflora*</i>	multiflora rose	1997			X X		X				2.57	3		1
		1998			X X X						5.02	5		1
<i>Rubus sp.</i>	blackberry	1997	X	X X X	X	X X	X X			2.86	18			
		1998	X	X X X	X	X X	X X X	X	3.44	18				
<i>Rudbeckia hirta</i>	black-eyed Susan	1997		X X X						0.33	3			
		1998			X					2.20	1			
<i>Rudbeckia laciniata</i>	coneflower	1997			X					3.50	1			
<i>Rumex crispus*</i>	curly dock	1997			X X				X	0.83	3	R		
		1998	X	X X X	X X					0.71	8	R		
<i>Rumex obtusifolius*</i>	bitter dock	1997							X	4.80	1	R		
		1998							X	1.50	1	R		
<i>Salix nigra</i>	black willow	1997	X							3.00	1			
		1998	X							2.00	1			
<i>Salix rubra</i>	red willow	1998		X						4.00	1			
<i>Salvia lyrata</i>	lyre-leaf sage	1997	X							0.70	1			
		1998	X		X	X	X X			1.03	6			
<i>Sambucus canadensis</i>	elderberry	1997	X							2.20	1			
		1998				X				4.80	1			
<i>Sassafrass albidum</i>	sassafrass	1997	X							0.50	1			
		1998			X X					3.25	2			
<i>Saururus cernuus</i>	lizard's tail	1998						X		4.00	1			
<i>Scutellaria sp.</i>	heart skullcap	1997				X				0.30	1			
<i>Sedum pulchellum</i>	lime stonecrop	1998	X							4.50	1			

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank				
			40			65	75	81	155	US 23								
			w	m	e													
<i>Senecio sp.</i>	ragwort	1997			X		X	X			1.20	3						
		1998	X		X			X			0.80	6						
<i>Senna marylandica</i>	Maryland senna	1997							X		6.00	1						
		1998	X								0.50	1						
<i>Senna obtusifolia*</i>	sicklepod	1997							X		0.20	1	P	3				
<i>Setaria (glauca) pumila*</i>	yellow foxtail	1997	X	X	X	X	X	X	X	X	2.31	16		2				
		1998	X	X	X				X		1.38	4		2				
<i>Setaria faberi*</i>	giant foxtail	1997	X			X	X				1.37	3	R	3				
<i>Setaria sp.*</i>	foxtail	1998				X					3.00	1		2				
<i>Setaria viridis*</i>	green foxtail	1997	X	X	X		X	X		X	2.16	11		2				
		1998			X						1.00	1		2				
<i>Sida spinosa*</i>	prickly sida	1997	X	X	X		X		X		0.22	6						
<i>Silene sp.</i>		1998	X								0.20	1						
<i>Silphium integrifolium</i>	rosin weed	1997	X								0.40	1						
<i>Sisyrinchium sp.</i>	blue-eyed grass	1998					X				0.50	1						
<i>Smilax sp.</i>	greenbriar	1997	X	X	X		X		X		1.25	6						
		1998	X	X	X	X	X	X			1.43	7						
<i>Solanum carolinense</i>	horsenettle	1997	X	X	X	X	X	X	X	X	1.27	12	R					
		1998	X		X		X		X		1.42	5	R					
<i>Solidago sp.</i>	goldenrod	1997	X	X	X	X	X	X	X	X	4.68	20						
		1998	X	X	X	X	X	X	X	X	5.42	20						
<i>Sonchus asper*</i>	prickly sow thistle	1997				X				X	0.25	2						
		1998		X	X	X		X		X	0.46	5						
<i>Sonchus sp.</i>	sow thistle	1998		X							0.90	1						

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank					
			40		65		75		81										
			w	m	e														
<i>Sorghum halapense*</i>	Johnsongrass	1997	X	X	X	X	X	X		X		3.75	13	P	1				
		1998	X	X	X	X	X			X		3.27	11	P	1				
<i>Stellaria media*</i>	common chickweed	1998			X		X	X				1.20	3						
<i>Syphoricarpos orbiculatus</i>	coral berry	1998	X		X		X					6.24	5						
<i>Taraxacum officinale*</i>	dandelion	1997	X		X	X	X	X			X	0.66	10						
		1998	X		X	X	X					0.96	7						
<i>Torilis arvensis*</i>	hedge parsley	1998		X	X							0.97	3		2				
<i>Toxicodendron radicans</i>	poison ivy	1997	X	X	X	X	X		X	X		2.89	11						
		1998	X		X	X	X	X	X	X		2.23	12						
<i>Toxicodendron toxicarium</i>	poison oak	1997	X	X	X		X	X		X		1.94	8						
		1998	X							X		5.50	2						
<i>Tragopogon dubius*</i>	goat's beard	1998	X		X							0.85	2		3				
<i>Tridens flavus</i>	purpletop	1997		X								0.50	1						
		1998			X							1.00	1						
<i>Trifolium campestre*</i>	low hop clover	1998	X	X	X	X	X	X				3.84	9						
<i>Trifolium pratense*</i>	red clover	1997	X	X		X	X				X	0.73	7						
		1998		X		X	X	X		X		0.74	8						
<i>Trifolium repens*</i>	white clover	1997			X	X					X	0.53	3						
		1998	X		X					X		0.70	3						
<i>Triticum aestivum*</i>	wheat	1998			X					X		3.40	2						
<i>Typha latifolia</i>	common cat-tail	1997				X						0.50	1						
		1998				X					X	1.00	2						
<i>Ulmus alata</i>	winged elm	1997	X	X	X	X	X			X		2.85	6						
		1998	X		X	X						4.12	4						

Table 10. (Continued)

Species	Common name	Year	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank
			24	40 w m e	65	75	81	155	US 23					
<i>Ulmus rubra</i>	slippery elm	1997	X		X						3.40	3		
		1998	X			X					2.30	2		
<i>Ulmus sp.</i>	elm	1997			X X						0.15	2		
		1998	X X		X	X					1.26	5		
<i>Valerianella radiata</i>	corn salad	1998	X	X	X X						7.85	4		
<i>Verbascum blattaria</i> *	moth mullein	1997	X	X						X	0.53	3		
		1998		X				X			0.75	2		
<i>Verbascum thapsus</i> *	woolly mullein	1997	X		X					X	1.00	3		2
<i>Verbena simplex</i>	hoary vervain	1997	X		X						0.20	2		
		1998	X	X X							0.40	3		
<i>Verbena urticifolia</i>	vervain	1997	X X X		X						0.68	4		
<i>Verbesina occidentalis</i>	yellow crown-beard	1997		X							0.70	1		
<i>Verbesina sp.</i>	wingstem	1998	X	X X							2.28	4		
<i>Vernonia altissima</i>	ironweed	1997			X	X					2.00	2		
		1998		X X		X X X					3.08	5		
<i>Veronica arvensis</i>	corn speedwell	1998	X	X X	X						1.58	6		
<i>Veronica sp.</i>	blue speedwell	1998								X	0.40	1		
<i>Vicia dasycarpa</i> *	smooth vetch	1998			X		X				X	0.93	3	
<i>Vicia sativa</i> ssp. <i>nigra</i>	narrow-leaved vetch	1998	X			X						1.83	3	
<i>Viola sp.</i>	violet	1997			X							1.00	1	
<i>Vitis sp.</i>	grapevine	1997	X									0.50	1	
		1998	X X X X X									1.34	8	
<i>Xanthium strumarium</i> *	common cocklebur	1997	X	X					X		0.47	3	R	3

* -exotic species

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3 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and

4 = Watch list.

Table 11. Top 30 plant species according to percent cover estimates at quantitative sampling sites (n = 21) along interstates in Tennessee, 1997.

% cover	No. sites	Species	Common name	Interstate								TN-State Nox. weed ²	TN-EPPC rank ³	
				24	40 ¹			65	75	81	155	US 23		
w	m	e												
14.40	21	<i>Festuca arundinacea*</i>	tall fescue	X	X	X	X	X	X	X	X	X		
11.80	1	<i>Pueraria lobata*</i>	kudzu			X								1
10.50	4	<i>Microstegium vimineum*</i>	Nepal grass	X			X		X					1
9.38	11	<i>Cynodon dactylon*</i>	bermuda grass	X	X	Í	X	X			X			
9.13	3	<i>Coronilla varia*</i>	crown vetch				X		X			X		2
8.00	1	<i>Celastrus orbiculatus*</i>	oriental bittersweet			X								2
6.80	1	<i>Cirsium arvense*</i>	Canada thistle						X				P	2
6.77	3	<i>Juniperus virginiana</i>	cedar (seedling)	X		X				X				
6.50	1	<i>Chloris virgata</i>	feather finger grass		X									
6.50	1	<i>Lythrum salicaria*</i>	purple loosestrife									X		1
6.12	14	<i>Lespedeza cuneata*</i>	sericea lespedeza	X	X	X	X	X	X	X	X			1
6.00	1	<i>Paspalum sp.</i>			X									
6.00	1	<i>Senna marylandica</i>	wild senna								X			
5.95	17	<i>Lonicera japonica*</i>	Japanese honeysuckle	X	X	X	X	X	X	X	X			1
5.88	5	<i>Andropogon virginicus</i>	broomsedge	X	X		X			X				
5.00	1	<i>Eupatorium coelostinum</i>	mistflower	X										
5.00	1	<i>Potentilla canadensis</i>	dwarf cinquefoil							X				
4.80	1	<i>Rumex obtusifolius*</i>	broadleaved dock									X	R	
4.75	2	<i>Echinochloa crusgalli*</i>	barnyard grass					X				X		
4.75	2	<i>Erianthus alopecuroides</i>	beardgrass		X									
4.68	20	<i>Solidago sp.</i>	goldenrod	X	X	X	X	X	X	X	X	X		
4.50	2	<i>Agrimonia parviflora</i>	agrimony			X								
4.35	2	<i>Robinia pseudoacacia</i>	black locust						X		X			
4.20	2	<i>Lespedeza sp.</i>			X									
3.80	2	<i>Bromus tectorum*</i>	downy brome	X			X							2
3.75	13	<i>Sorghum halapense*</i>	Johnsongrass	X	X	X	X	X	X		X		P	I
3.71	7	<i>Eragrostis sp.</i>	lovegrass	X	X	X			X	X	X			
3.70	1	<i>Perrilla frutescens*</i>	beefsteak plant			X								
3.50	1	<i>Rudbeckia laciniata</i>	coneflower				X							
3.43	3	<i>Ambrosia trifida</i>	giant ragweed						X		X			

* -exotic species

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Table 12. Top 30 plant species according to percent cover estimates at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1998.

% cover	No. sites	Species	Common name	Interstate								TN-State Nox. weed ²	TN-EPPC rank ³	
				24	40 ¹			65	75	81	155	US 23		
w	m	e												
18.77	21	<i>Festuca arundinacea*</i>	tall fescue	X	X	X	X	X	X	X	X	X		
15.90	1	<i>Pinus taeda</i>	loblolly pine	X										
13.55	2	<i>Coronilla varia*</i>	crown vetch					X			X			2
12.00	1	<i>Prunus sp.</i>	cherry red stems		X									
9.60	1	<i>Cirsium arvense*</i>	Canada thistle					X					P	2
9.30	1	<i>Dipsacus fullonum*</i>	teasel					X						2
9.05	10	<i>Cynodon dactylon*</i>	bermuda grass	X	X	X	X	X			X			
9.00	1	<i>Pueraria lobata*</i>	kudzu			X								1
8.52	4	<i>Paspalum dilatatum*</i>	dallis grass		X	X	X							
7.85	4	<i>Valerianella radiata</i>	corn salad	X		X		X	X					
7.05	2	<i>Ligustrum sinense*</i>	Chinese privet					X	X					1
6.50	1	<i>Albizia julibrissin*</i>	mimosa	X										2
6.24	5	<i>Symphorycarpos orbiculatus</i>	coral berry	X		X		X						
6.00	1	<i>Elephantopus tomentosus</i>	elephant's foot		X									
5.75	2	<i>Centaurea maculosa*</i>	spotted knapweed	X						X				2
5.75	2	<i>Pinus sp.</i>	pine					X	X					
5.67	3	<i>Potentilla recta*</i>	sulfur cinquefoil	X		X	X							
5.50	1	<i>Potentilla canadensis</i>	dwarf cinquefoil							X				
5.50	2	<i>Toxicodendron toxicarium</i>	poison oak	X							X			
5.42	17	<i>Lonicera japonica*</i>	Japanese honeysuckle	X	X	X	X	X	X	X				1
5.42	20	<i>Solidago sp.</i>	goldenrod	X	X	X	X	X	X	X	X	X		
5.02	5	<i>Rosa multiflora*</i>	multiflora rose				X	X	X					1
5.00	1	<i>Lythrum salicaria*</i>	purple loosestrife									X		1
4.89	13	<i>Lespedeza cuneata*</i>	sericea lespedeza	X	X	X	X			X	X			1
4.80	1	<i>Sambucus canadensis</i>	elderberry							X				
4.67	6	<i>Acer negundo</i>	boxelder	X		X	X	X						
4.65	2	<i>Phalaris sp.</i>	canary grass				X					X		
4.55	2	<i>Ailanthus altissima*</i>	tree-of-heaven				X							1
4.50	4	<i>Liquidambar styraciflua</i>	sweetgum	X	X							X		
4.50	1	<i>Sedum pulchellum</i>	lime stonecrop	X										

* -exotic species

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Table 13. Alphabetical listing of state-ranked exotic and invasive plant species and corresponding incidence and estimates of percent cover at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1997.

Species	Common name	Interstate							% cover	No. sites	TN-State Nox. weed ²	TN-EPPC rank ³
		40 ¹			65	75	81	155				
		w	m	e								
<i>Ailanthus altissima</i> *	tree-of-heaven			X					2.00	1		1
<i>Albizia julibrissin</i> *	mimosa			X					1.80	1		2
<i>Allium vineale</i> *	field garlic		X		X				0.10	2	R	2
<i>Bromus japonicus</i> *	Japanese brome		X						1.85	2		2
<i>Bromus sp.</i> *	brome			X	X		X		0.33	3	R	2
<i>Bromus tectorum</i> *	downy brome	X		X					3.80	2		2
<i>Carduus nutans</i> *	musk thistle	X	X	X		X			1.28	4	R	1
<i>Celatistru orbiculatus</i> *	oriental bitterweed			X					8.00	1		2
<i>Centaurea maculosa</i> *	spotted knapweed				X			X	1.40	2		2
<i>Cichorium intybus</i> *	chickory			X	X		X	X	0.82	5		3
<i>Cirsium arvense</i> *	Canada thistle					X			6.80	1	P	2
<i>Cirsium vulgare</i> *	bull thistle	X		X	X				X	2.40	5	
<i>Convolvulus arvensis</i> *	field bindweed				X		X		X	2.63	4	P
<i>Coronilla varia</i> *	crown vetch				X		X		X	9.13	3	
<i>Cuscuta sp.</i>	dodder				X					0.20	1	R
<i>Cyperus esculentus</i>	yellow nutsedge	X		X		X		X		1.92	5	P
<i>Daucus carota</i> *	wild carrot	X	X	X	X		X	X	X	2.18	9	
<i>Dipsacus fullonum</i> *	teasel				X	X		X		1.83	3	
<i>Hypericum perforatum</i> *	St. John's-wort				X			X		0.95	2	
<i>Kummerowia stipulacea</i> *	Korean lespedeza	X	X	X	X		X	X	X	3.20	10	
<i>Lespedeza cuneata</i> *	sericea lespedeza	X	X	X	X	X	X	X		6.12	14	
<i>Ligustrum sinense</i> *	Chinese privet	X	X	X	X	X	X			2.96	9	
<i>Ligustrum vulgare</i> *	common privet				X	X				1.55	2	
<i>Lonicera japonica</i> *	Japanese honeysuckle	X	X	X	X	X	X	X		5.95	17	
<i>Lonicera morrowii</i> *	honeysuckle					X				1.00	1	

Table 13. (Continued).

Species	Common name	Interstate								% cover	No. sites	TN-State Nox. weed	TN-EPPC rank	
		24	40			65	75	81	155	US 23				
		w	m	e										
<i>Lythrum salicaria*</i>	purple loosestrife									X	6.50	1		1
<i>Melilotus alba*</i>	white sweet clover			X							3.00	1		2
<i>Melilotus officinalis*</i>	yellow sweet clover			X						X	0.40	2		2
<i>Microstegium vimineum*</i>	Nepal grass	X			X		X				10.50	4		1
<i>Paulownia tomentosa*</i>	princess tree			X							0.50	1		1
<i>Plantago lanceolata*</i>	lanceleaf plantain	X	X	X	X	X	X	X	X		2.54	21	R	
<i>Polygonum cespitosum*</i>	bunchy knotweed					X					1.00	1		2
<i>Pueraria lobata*</i>	kudzu			X							11.80	1		1
<i>Rosa multiflora*</i>	multiflora rose		X	X			X				2.57	3		1
<i>Rumex crispus*</i>	curly dock		X	X						X	0.83	3	R	
<i>Rumex obtusifolius*</i>	bitter dock									X	4.80	1	R	
<i>Senna obtusifolia*</i>	sicklepod							X			0.20	1	P	3
<i>Setaria faberi*</i>	giant foxtail	X			X	X					1.37	3	R	3
<i>Setaria (glauca) pumila*</i>	yellow foxtail	X	X	X	X	X	X	X	X		2.31	16		2
<i>Setaria viridis*</i>	green foxtail	X	X	X		X	X		X		2.16	11		2
<i>Solanum carolinense</i>	horsenettle	X	X	X	X	X	X	X	X		1.27	12	R	
<i>Sorghum halapense*</i>	Johnsongrass	X	X	X	X	X	X		X		3.75	13	P	1
<i>Verbascum thapsus*</i>	woolly mullein	X		X						X	1.00	3		2
<i>Xanthium strumarium*</i>	common cocklebur	X		X						X	0.47	3	R	3

*-exotic species

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3 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Table 14. State-ranked exotic and invasive plant species, arranged by estimates of percent cover, at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1997.

% cover	Species	Common name	Interstate								No. sites	TN-State Nox. weed ²	TN-EPPC rank ³		
			24	40 ¹			65	75	81	155	US 23				
				w	m	e									
11.80	<i>Pueraria lobata</i> *	kudzu			X							1		1	
10.50	<i>Microstegium vimineum</i> *	Nepal grass	X			X		X				4		1	
9.13	<i>Coronilla varia</i> *	crown vetch				X		X			X	3		2	
8.00	<i>Celatistrus orbiculatus</i> *	oriental bitterweed			X							1		2	
6.80	<i>Cirsium arvense</i> *	Canada thistle						X				1	P	2	
6.50	<i>Lythrum salicaria</i> *	purple loosestrife									X	1		1	
6.12	<i>Lespedeza cuneata</i> *	sericea lespedeza	X	X	X	X	X	X	X			14		1	
5.95	<i>Lonicera japonica</i> *	Japanese honeysuckle	X	X	X	X	X	X	X	X		17		1	
4.80	<i>Rumex obtusifolius</i> *	bitter dock									X	1	R		
3.80	<i>Bromus tectorum</i> *	downy brome	X			X						2		2	
3.75	<i>Sorghum halapense</i> *	Johnsongrass	X	X	X	X	X	X			X	13	P	1	
3.20	<i>Kummerowia stipulacea</i> *	Korean lespedeza	X	X	X	X		X	X	X		10		3	
3.00	<i>Melilotus alba</i> *	white sweet clover			X							1		2	
2.96	<i>Ligustrum sinense</i> *	Chinese privet	X	X	X	X	X	X				9		1	
2.63	<i>Convolvulus arvensis</i> *	field bindweed				X		X			X	4	P		
2.57	<i>Rosa multiflora</i> *	multiflora rose			X	X		X				3		1	
2.54	<i>Plantago lanceolata</i> *	lanceleaf plantain	X	X	X	X	X	X	X	X		21	R		
2.40	<i>Cirsium vulgare</i> *	bull thistle	X		X		X				X	5		2	
2.31	<i>Setaria (glauca) pumila</i> *	yellow foxtail	X	X	X	X	X	X	X	X		16		2	
2.18	<i>Daucus carota</i> *	wild carrot	X	X	X	X		X	X		X	9		3	
2.16	<i>Setaria viridis</i> *	green foxtail	X	X	X		X	X		X		11		2	
2.00	<i>Ailanthus altissima</i> *	tree-of-heaven				X						1		1	
1.92	<i>Cyperus esculentus</i>	yellow nutsedge	X		X		X			X		5	P		
1.85	<i>Bromus japonicus</i> *	Japanese brome			X							2		2	
1.83	<i>Dipsacus fullonum</i> *	teasel			X		X		X			3		2	

Table 14. (Continued).

% cover	Species	Common name	Interstate							No. sites	TN-State Nox. weed	TN-EPPC rank		
			24	40			65	75	81	155	US 23			
				w	m	e								
1.80	<i>Albizia julibrissin</i> *	mimosa			X							1	2	
1.55	<i>Ligustrum vulgare</i> *	common privet			X	X						2	1	
1.40	<i>Centaurea maculosa</i> *	spotted knapweed				X			X			2	2	
1.37	<i>Setaria faberii</i> *	giant foxtail	X				X	X				3	R 3	
1.28	<i>Carduus nutans</i> *	musk thistle	X	X	X		X					4	R 1	
1.27	<i>Solanum carolinense</i>	horsenettle	X	X	X	X	X	X	X	X		12	R	
1.00	<i>Lonicera morrowii</i> *	honeysuckle					X					1	1	
1.00	<i>Polygonum cespitosum</i> *	bunchy knotweed					X					1	2	
1.00	<i>Verbascum thapsus</i> *	woolly mullein	X			X				X	3		2	
0.95	<i>Hypericum perforatum</i> *	St. John's-wort			X			X				2	4	
0.83	<i>Rumex crispus</i> *	curly dock		X	X					X	3	R		
0.82	<i>Cichorium intybus</i> *	chickory		X	X		X	X				5	3	
0.50	<i>Paulownia tomentosa</i> *	princess tree			X							1	1	
0.47	<i>Xanthium strumarium</i> *	common cocklebur	X		X				X		3	R	3	
0.40	<i>Melilotus officinalis</i> *	yellow sweet clover			X					X	2		2	
0.33	<i>Bromus</i> sp.*	brome				X	X	X			3	R	2	
0.20	<i>Cuscuta</i> sp.	dodder				X					1	R		
0.20	<i>Senna obtusifolia</i> *	sicklepod							X		1	P	3	
0.10	<i>Allium vineale</i> *	field garlic			X	X					2	R	2	

*-exotic species

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Table 15. Exotic and invasive plant species, arranged by state rankings, and corresponding incidence and estimates of percent cover at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1997.

TN-EPPC rank ¹	TN-State Nox. weed ²	Species	Common name	Interstate								% cover	No. sites		
				24	w	m	e	40 ³	65	75	81	155	US 23		
1		<i>Ailanthus altissima*</i>	tree-of-heaven					X						2.00	1
1	R	<i>Carduus nutans*</i>	musk thistle	X	X	X			X					1.28	4
1		<i>Lespedeza cuneata*</i>	sericea lespedeza	X	X	X	X	X	X	X	X			6.12	14
1		<i>Ligustrum sinense*</i>	Chinese privet	X	X	X	X	X	X	X				2.96	9
1		<i>Ligustrum vulgare*</i>	common privet			X			X					1.55	2
1		<i>Lonicera japonica*</i>	Japanese honeysuckle	X	X	X	X	X	X	X	X	X		5.95	17
1		<i>Lonicera morrowii*</i>	honeysuckle						X					1.00	1
1		<i>Lythrum salicaria*</i>	purple loosestrife										X	6.50	1
1		<i>Microstegium vimineum*</i>	Nepal grass	X				X		X				10.50	4
1		<i>Paulownia tomentosa*</i>	princess tree				X							0.50	1
1		<i>Pueraria lobata*</i>	kudzu			X								11.80	1
1		<i>Rosa multiflora*</i>	multiflora rose			X	X			X				2.57	3
1	P	<i>Sorghum halapense*</i>	Johnsongrass	X	X	X	X	X	X			X		3.75	13
2		<i>Albizia julibrissin*</i>	mimosa				X							1.80	1
2	R	<i>Allium vineale*</i>	field garlic		X				X					0.10	2
2		<i>Bromus japonicus*</i>	Japanese brome			X								1.85	2
2	R	<i>Bromus sp.*</i>	brome				X	X			X			0.33	3
2		<i>Bromus tectorum*</i>	downy brome	X			X							3.80	2
2		<i>Celatistrus orbiculatus*</i>	oriental bitterweed			X								8.00	1
2		<i>Centaurea maculosa*</i>	spotted knapweed				X			X				1.40	2
2	P	<i>Cirsium arvense*</i>	Canada thistle							X				6.80	1
2		<i>Cirsium vulgare*</i>	bull thistle	X	X		X						X	2.40	5
2		<i>Coronilla varia*</i>	crown vetch				X		X				X	9.13	3
2		<i>Dipsacus fullonum*</i>	teasel			X		X			X			1.83	3
2		<i>Melilotus alba*</i>	white sweet clover		X									3.00	1

Table 15. (Continued).

TN-EPPC rank	TN-State Nox. weed	Species	Common name	Interstate								% cover	No. sites		
				24	40			65	75	81	155	US 23			
					w	m	e								
2		<i>Melilotus officinalis</i> *	yellow sweet clover			X						X	0.40	2	
2		<i>Polygonum cespitosum</i> *	bunchy knotweed					X					1.00	1	
2		<i>Setaria (glauca) pumila</i> *	yellow foxtail		X	X	X	X	X	X	X	X	2.31	16	
2		<i>Setaria viridis</i> *	green foxtail		X	X	X		X	X		X	2.16	11	
2		<i>Verbascum thapsus</i> *	woolly mullein		X			X					X	1.00	3
3		<i>Cichorium intybus</i> *	chickory				X	X			X	X		0.82	5
3		<i>Daucus carota</i> *	wild carrot		X	X	X	X			X	X	X	2.18	9
3		<i>Kummerowia stipulacea</i> *	Korean lespedeza		X	X	X	X			X	X	X	3.20	10
3	P	<i>Senna obtusifolia</i> *	sicklepod									X		0.20	1
3	R	<i>Setaria faberii</i> *	giant foxtail		X				X	X				1.37	3
3	R	<i>Xanthium strumarium</i> *	common cocklebur		X		X					X		0.47	3
4		<i>Hypericum perforatum</i> *	St. John's-wort				X				X			0.95	2
	P	<i>Convolvulus arvensis</i> *	field bindweed					X			X		X	2.63	4
	P	<i>Cyperus esculentus</i>	yellow nutsedge		X		X	X				X		1.92	5
	R	<i>Plantago lanceolata</i> *	lanceleaf plantain		X	X	X	X	X	X	X	X		2.54	21
	R	<i>Cuscuta</i> sp.	dodder					X						0.20	1
	R	<i>Rumex crispus</i> *	curly dock				X	X					X	0.83	3
	R	<i>Rumex obtusifolius</i> *	bitter dock										X	4.80	1
	R	<i>Solanum carolinense</i>	horsenettle		X	X	X	X	X	X	X	X		1.27	12

*-exotic species

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3 -For Interstate 40: w=West Tennessee, m=Middle Tennessee, e=East Tennessee.

Table 16. Alphabetical listing of state-ranked exotic and invasive plant species and corresponding incidence and estimates of percent cover at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1998.

Species	Common name	Interstate							% cover	No. sites	TN-State Nox. weed ²	TN-EPPC rank ³	
		24	40 ¹			65	75	81	155	US 23			
		w	m	e									
<i>Ailanthus altissima</i> *	tree-of-heaven				X						4.55	2	
<i>Albizia julibrissin</i> *	mimosa	X									6.50	1	
<i>Allium vineale</i> *	field garlic	X	X	X	X	X		X			0.38	10	R
<i>Artemisia vulgaris</i> *	mugwort				X					X	3.00	2	
<i>Brassica rapa</i> *	birdsrape mustard									X	0.40	1	R
<i>Bromus japonicus</i> *	Japanese brome		X	X			X		X	X	1.73	8	
<i>Bromus tectorum</i> *	downy brome	X		X	X	X	X	X	X		3.06	14	
<i>Carduus nutans</i> *	musk thistle	X		X	X						1.28	5	R
<i>Celastrus orbiculatus</i> *	oriental bittersweet			X							3.00	1	
<i>Centaurea cyanus</i> *	bachelor's button								X		0.20	1	
<i>Centaurea maculosa</i> *	spotted knapweed	X						X			5.75	2	
<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy			X	X		X	X		X	1.53	7	
<i>Cichorium intybus</i> *	chickory	X	X		X		X	X			2.03	7	
<i>Cirsium arvense</i> *	Canada thistle						X				9.60	1	P
<i>Cirsium vulgare</i> *	bull thistle	X		X		X	X	X		X	1.88	6	
<i>Convolvulus arvensis</i> *	field bindweed				X					X	1.15	2	P
<i>Coronilla varia</i> *	crown vetch						X			X	13.55	2	
<i>Cosmos sulfureus</i> *	cosmos				X						0.50	1	R
<i>Cuscuta</i> sp.	dodder			X			X				0.11	2	R
<i>Cyperus esculentus</i>	yellow nutsedge	X								X	0.70	2	P
<i>Daucus carota</i> *	wild carrot	X	X	X	X	X	X	X		X	1.05	14	
<i>Dipsacus fullonum</i> *	teasel					X					9.30	1	
<i>Hypericum perforatum</i> *	St. John's-wort						X				0.50	1	
<i>Kummerowia stipulacea</i> *	Korean lespedeza	X						X	X		0.60	3	
<i>Lespedeza cuneata</i> *	sericea lespedeza	X	X	X	X		X	X			4.89	13	

Table 16. (Continued).

Species	Common name	Interstate							% cover	No. sites	TN-State Nox. weed	TN-EPPC rank		
		24	40			65	75	81	155	US 23				
			w	m	e									
<i>Ligustrum sinense</i> *	Chinese privet				X	X					7.05	2		
<i>Ligustrum vulgare</i> *	common privet	X	X	X	X						1.50	5		
<i>Lonicera japonica</i> *	Japanese honeysuckle	X	X	X	X	X	X	X			5.42	17		
<i>Lonicera maackii</i> *	bush honeysuckle			X							1.00	1		
<i>Lythrum salicaria</i> *	purple loosestrife								X	5.00	1		1	
<i>Melilotus alba</i> *	white sweet clover		X								1.00	1	2	
<i>Melilotus officinalis</i> *	yellow sweet clover				X	X	X				1.03	3	2	
<i>Microstegium vimineum</i> *	Nepal grass	X		X	X		X				3.85	6		
<i>Poa annua</i> *	annual bluegrass	X				X					1.05	2	R	
<i>Plantago lanceolata</i> *	lanceleaf plantain	X	X	X	X	X	X	X	X	4.33	21	R		
<i>Pueraria lobata</i> *	kudzu			X							9.00	1		
<i>Rosa multiflora</i> *	multiflora rose			X	X	X					5.02	5		
<i>Rumex crispus</i> *	curly dock	X	X	X	X	X	X				0.71	8	R	
<i>Rumex obtusifolius</i> *	bitter dock								X	1.50	1	R		
<i>Setaria (glauca) pumila</i> *	yellow foxtail	X	X		X			X			1.38	4		
<i>Setaria sp.</i> *	foxtail					X					3.00	1	2	
<i>Setaria viridis</i> *	green foxtail			X							1.00	1	2	
<i>Solanum carolinense</i>	horsenettle	X			X		X	X			1.42	5	R	
<i>Sorghum halapense</i> *	Johnsongrass	X	X	X	X	X			X		3.27	11	P	
<i>Torilis arvensis</i> *	hedge parsley		X	X							0.97	3		
													3	

*-exotic species

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Table 17. State-ranked exotic and invasive plant species, arranged by estimates of percent cover, at all quantitative sampling sites ($n = 21$) along interstates in Tennessee, 1998.

% cover	Species	Common name	Interstate									No. sites	TN-State Nox. weed ²	TN-EPPC rank ³
			40 ¹			65	75	81	155	US 23				
			w	m	e									
13.55	<i>Coronilla varia</i> *	crown vetch				X				X	2			2
9.60	<i>Cirsium arvense</i> *	Canada thistle				X					1	P		2
9.30	<i>Dipsacus fullonum</i> *	teasel				X					1			2
9.00	<i>Pueraria lobata</i> *	kudzu		X							1			1
7.05	<i>Ligustrum sinense</i> *	Chinese privet				X	X				2			1
6.50	<i>Albizia julibrissin</i> *	mimosa	X							1	2			2
5.75	<i>Centaurea maculosa</i> *	spotted knapweed	X					X			2			2
5.42	<i>Lonicera japonica</i> *	Japanese honeysuckle	X	X	X	X	X	X			17			1
5.02	<i>Rosa multiflora</i> *	multiflora rose		X	X	X					5			1
5.00	<i>Lythrum salicaria</i> *	purple loosestrife								X	1			1
4.89	<i>Lespedeza cuneata</i> *	sericea lespedeza	X	X	X	X		X	X		13			1
4.55	<i>Ailanthus altissima</i> *	tree-of-heaven			X						2			1
4.33	<i>Plantago lanceolata</i> *	lanceleaf plantain	X	X	X	X	X	X	X	X	21	R		
3.85	<i>Microstegium vimineum</i> *	Nepal grass	X	X	X		X				6			1
3.27	<i>Sorghum halapense</i> *	Johnsongrass	X	X	X	X	X			X	11	P		1
3.06	<i>Bromus tectorum</i> *	downy brome	X		X	X	X	X	X	X	14			2
3.00	<i>Artemisia vulgaris</i> *	mugwort			X						X	2		2
3.00	<i>Celastrus orbiculatus</i> *	oriental bittersweet		X							1			2
3.00	<i>Setaria sp.</i> *	dead foxtail				X					1			2
2.03	<i>Cichorium intybus</i> *	chickory	X	X	X		X	X			7			3
1.88	<i>Cirsium vulgare</i> *	bull thistle	X	X		X	X	X		X	6			2
1.73	<i>Bromus japonicus</i> *	Japanese brome		X	X		X		X	X	8			2
1.53	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy			X	X		X		X	7			2
1.50	<i>Ligustrum vulgare</i> *	common privet	X	X	X	X					5			1
1.50	<i>Rumex obtusifolius</i> *	bitter dock								X	1	R		

Table 17. (Continued).

% cover	Species	Common name	Interstate							No. sites	TN-State Nox. weed	TN-EPPC rank	
			24	40			65	75	81	155	US 23		
				w	m	e							
1.42	<i>Solanum carolinense</i>	horsenettle	X		X		X		X		5	R	
1.38	<i>Setaria (glauca) pumila*</i>	yellow foxtail	X	X	X				X		4		2
1.28	<i>Carduus nutans*</i>	musk thistle	X	X		X	X				5	R	1
1.15	<i>Convolvulus arvensis*</i>	field bindweed			X					X	2	P	
1.05	<i>Daucus carota*</i>	wild carrot	X	X	X	X	X	X	X	X	14		3
1.05	<i>Poa annua*</i>	annual bluegrass	X			X					2	R	
1.03	<i>Melilotus officinalis*</i>	yellow sweet clover				X	X	X			3		2
1.00	<i>Lonicera maackii*</i>	bush honeysuckle				X					1		1
1.00	<i>Melilotus alba*</i>	white sweet clover		X							1		2
1.00	<i>Setaria viridis*</i>	green foxtail			X						1		2
0.97	<i>Torilis arvensis*</i>	hedge parsley		X	X						3		2
0.85	<i>Tragopogon dubius*</i>	goat's beard	X	X							2		3
0.71	<i>Rumex crispus*</i>	curly dock	X	X	X	X	X	X			8	R	
0.70	<i>Cyperus esculentus</i>	yellow nutsedge	X							X	2	P	
0.60	<i>Kummerowia stipulacea*</i>	Korean lespedeza	X					X	X		3		3
0.50	<i>Cosmos sulfureus*</i>	cosmos			X						1	R	3
0.50	<i>Hypericum perforatum*</i>	St. John's-wort					X				1		4
0.40	<i>Brassica rapa*</i>	birdrape mustard								X	1	R	
0.38	<i>Allium vineale*</i>	field garlic	X	X	X	X	X		X		10	R	2
0.20	<i>Centaurea cyanus*</i>	bachelor's button								X	1		3
0.11	<i>Cuscuta sp.</i>	dodder				X		X			2	R	

*-exotic species

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4 = Watch list.

Table 18. Exotic and invasive plant species, arranged by state rankings, and corresponding incidence and estimates of percent cover at all quantitative sampling sites (n = 21) along interstates in Tennessee, 1998.

TN-EPPC rank ¹	TN-State Nox. weed ²	Species	Common name	Interstate								% cover	No. sites		
				24	40 ³			65	75	81	155	US 23			
				w	m	e									
1		<i>Ailanthus altissima</i> *	tree-of-heaven				X						4.55	2	
1	R	<i>Carduus nutans</i> *	musk thistle	X		X		X	X				1.28	5	
1		<i>Lespedeza cuneata</i> *	sericea lespedeza	X	X	X	X			X	X		4.89	13	
1		<i>Ligustrum sinense</i> *	Chinese privet					X	X				7.05	2	
1		<i>Ligustrum vulgare</i> *	common privet	X	X	X	X						1.50	5	
1		<i>Lonicera japonica</i> *	Japanese honeysuckle	X	X	X	X	X	X	X			5.42	17	
1		<i>Lonicera maackii</i> *	bush honeysuckle				X						1.00	1	
1		<i>Lythrum salicaria</i> *	purple loosestrife									X	5.00	1	
1		<i>Microstegium vimineum</i> *	Nepal grass	X		X	X			X			3.85	6	
1		<i>Pueraria lobata</i> *	kudzu				X						9.00	1	
1		<i>Rosa multiflora</i> *	multiflora rose				X	X	X				5.02	5	
1	P	<i>Sorghum halapense</i> *	Johnsongrass	X	X	X	X	X				X	3.27	11	
2		<i>Albizia julibrissin</i> *	mimosa	X									6.50	1	
2	R	<i>Allium vineale</i> *	field garlic	X	X	X	X	X			X		0.38	10	
2		<i>Artemisia vulgaris</i> *	mugwort				X						X	3.00	2
2		<i>Bromus japonicus</i> *	Japanese brome	X			X	X						1.72	8
2		<i>Bromus tectorum</i> *	downy brome	X		X	X	X	X	X	X			3.06	14
2		<i>Celastrus orbiculatus</i> *	oriental bittersweet			X								3.00	1
2		<i>Centaurea maculosa</i> *	spotted knapweed	X						X				5.75	2
2		<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy			X	X		X	X		X		1.53	7
2	P	<i>Cirsium arvense</i> *	Canada thistle							X				9.60	1
2		<i>Cirsium vulgare</i> *	bull thistle	X		X		X	X	X			X	1.88	6
2		<i>Coronilla varia</i> *	crown vetch							X			X	13.55	2
2		<i>Dipsacus fullonum</i> *	teasel						X					9.30	1
2		<i>Melilotus alba</i> *	white sweet clover			X								1.00	1

Table 18. (Continued).

TN-EPPC rank	TN-State Nox. weed	Species	Common name	Interstate							% cover	No. sites		
				24	40			65	75	81	155			
					w	m	e							
2		<i>Melilotus officinalis</i> *	yellow sweet clover					X	X	X		1.03	3	
2		<i>Setaria (glauca) pumila</i> *	yellow foxtail	X	X		X				X	1.38	4	
2		<i>Setaria sp.</i> *	foxtail					X				3.00	1	
2		<i>Setaria viridis</i> *	green foxtail			X						1.00	1	
2		<i>Torilis arvensis</i> *	hedge parsley		X	X						0.97	3	
3		<i>Centaurea cyanus</i> *	bachelor's button								X	0.20	1	
3		<i>Cichorium intybus</i> *	chickory	X	X		X		X	X		2.03	7	
3	R	<i>Cosmos sulphureus</i> *	cosmos				X					0.50	1	
3		<i>Daucus carota</i> *	wild carrot	X	X	X	X	X	X	X		1.05	14	
3		<i>Kummerowia stipulacea</i> *	Korean clover	X						X	X	0.60	3	
3		<i>Tragopogon dubius</i> *	goat's beard	X		X						0.85	2	
4		<i>Hypericum perforatum</i> *	St. John's-wort						X			0.50	1	
	P	<i>Convolvulus arvensis</i>	field bindweed					X				X	1.15	2
	P	<i>Cyperus esculentus</i>	yellow nutsedge	X								X	0.70	2
	R	<i>Cuscuta sp.</i>	dodder			X			X				0.11	2
	R	<i>Plantago lanceolata</i> *	lanceleaf plantain	X	X	X	X	X	X	X	X	4.33	21	
	R	<i>Poa annua</i> *	annual bluegrass	X			X						1.05	2
	R	<i>Rumex crispus</i> *	curly dock	X	X	X	X	X	X				0.71	8
	R	<i>Solanum carolinense</i>	horsenettle	X		X		X		X			1.42	5
	R	<i>Brassica rapa</i> *	birdsrape mustard									X	0.40	1
	R	<i>Rumex obtusifolius</i> *	bitter dock									X	1.50	1

*-exotic species

1 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

2 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

3 -For Interstate 40: w=West Tennessee, m=Middle Tennessee, e=East Tennessee.

APPENDICES

APPENDIX I

**PERCENT COVER
ESTIMATES FOR EACH
PLANT SPECIES FOUND AT
EACH QUANTITATIVE
SAMPLING SITE ALONG
INTERSTATES IN TENNESSEE**

1997

Appendix I. Percent cover estimates for plant species found at each quantitative site along interstates in Tennessee, 1997.

Interstate 181/US23 (1 site)

% cover	Genus	species	Common name	Family name	MM	County
25.6	<i>Coronilla</i>	<i>varia</i>	crown vetch	Fabaceae	mm 12	Unicoi
8.2	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 12	Unicoi
7.6	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 12	Unicoi
7.5	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 12	Unicoi
6.5	<i>Lythrum</i>	<i>salicaria</i>	purple loosestrife	Lythraceae	mm 12	Unicoi
4.8	<i>Rumex</i>	<i>obtusifolius</i>	bitter dock	Polygonaceae	mm 12	Unicoi
4.0	<i>Phalaris</i>	<i>sp.</i>	canary grass	Poaceae	mm 12	Unicoi
3.9	<i>Gaura</i>	<i>biennis</i>	biennial gaura	Onagraceae	mm 12	Unicoi
3.0	<i>Echinochloa</i>	<i>crusgalli</i>	barnyard grass	Poaceae	mm 12	Unicoi
1.8	<i>Setaria</i>	<i>pumilla</i>	yellow foxtail	Poaceae	mm 12	Unicoi
1.5	<i>Cyperus</i>	<i>sp.</i>	sedge	Cyperaceae	mm 12	Unicoi
1.5	<i>Plantago</i>	<i>major</i>	plantain	Plantaginaceae	mm 12	Unicoi
1.5	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 12	Unicoi
1.3	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 12	Unicoi
1.3	<i>Lolium</i>	<i>italicum</i>	Italian ryegrass	Poaceae	mm 12	Unicoi
1.0	<i>Raphanus</i>	<i>raphanistrum</i>	wild radish	Brassicaceae	mm 12	Unicoi
0.8	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 12	Unicoi
0.7	<i>Juncus</i>	<i>tenuis</i>	slender rush	Cyperaceae	mm 12	Unicoi
0.7	<i>Verbascum</i>	<i>thapsus</i>	common mullein	Scrophulariaceae	mm 12	Unicoi
0.7	<i>Melilotus</i>	<i>officinale</i>	yellow sweet clover	Fabaceae	mm 12	Unicoi
0.7	<i>Convolvulus</i>	<i>arvensis</i>	field bindweed	Asteraceae	mm 12	Unicoi
0.6	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 12	Unicoi
0.5	<i>Trifolium</i>	<i>repenes</i>	white clover	Fabaceae	mm 12	Unicoi
0.4	<i>Verbascum</i>	<i>blattaria</i>	moth mullein	Scrophulariaceae	mm 12	Unicoi
0.4	<i>Digitaria</i>	<i>sanguinalis</i>	crabgrass	Poaceae	mm 12	Unicoi
0.3	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 12	Unicoi
0.3	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 12	Unicoi
0.3	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 12	Unicoi
0.1	<i>Polygonum</i>	<i>sp.</i>	knotweed	Polygonaceae	mm 12	Unicoi

Appendix I. (Continued).

Interstate 155 (1 site)

% cover	Genus	species	Common name	Family name	MM	County
12.1	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 05	Dyer
8.2	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 05	Dyer
6.0	<i>Senna</i>	<i>marylandica</i>	wild senna	Fabaceae	mm 05	Dyer
5.1	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 05	Dyer
5.0	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 05	Dyer
4.8	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 05	Dyer
4.7	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 05	Dyer
4.1	<i>Plantago</i>	<i>lanceolata</i>	buckhorn plantain	Plantaginaceae	mm 05	Dyer
3.8	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 05	Dyer
3.0	<i>Ambrosia</i>	<i>trifida</i>	giant ragweed	Asteraceae	mm 05	Dyer
3.0	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bigoniaceae	mm 05	Dyer
2.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 05	Dyer
2.4	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 05	Dyer
2.3	<i>Physalis</i>	<i>sp.</i>	smooth ground cherry	Solanaceae	mm 05	Dyer
2.2	<i>Desmanthus</i>	<i>illinoensis</i>	prairie mimosia	Fabaceae	mm 05	Dyer
2.1	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 05	Dyer
1.8	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 05	Dyer
1.7	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 05	Dyer
1.5	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 05	Dyer
1.5			unknown aster	Asteraceae	mm 05	Dyer
1.5	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm 05	Dyer
1.5	<i>Cornus</i>	<i>sp.</i>	dogwood	Cornaceae	mm 05	Dyer
1.5	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 05	Dyer
1.3	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 05	Dyer
1.2	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm 05	Dyer
1.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 05	Dyer
1.0	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 05	Dyer
0.9	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 05	Dyer
0.9	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm 05	Dyer
0.8	<i>Portulaca</i>	<i>oleracea</i>	purslane	Portulacaceae	mm 05	Dyer
0.8	<i>Rhus</i>	<i>aromatica</i>	aromatic sumac	Anacardiaceae	mm 05	Dyer
0.8	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 05	Dyer
0.8	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 05	Dyer
0.8	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 05	Dyer
0.8	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm 05	Dyer
0.7	<i>Xanthium</i>	<i>strumarium</i>	common cocklebur	Asteraceae	mm 05	Dyer
0.7	<i>Lespedeza</i>	<i>stipulacea</i>	sericea lespedeza	Fabaceae	mm 05	Dyer
0.5	<i>Eupatorium</i>	<i>fistulosum</i>	Joe-Pye-weed	Asteraceae	mm 05	Dyer
0.5			unknown hairy grass	Poaceae	mm 05	Dyer
0.5	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 05	Dyer
0.3	<i>Amaranthus</i>	<i>retroflexus</i>	red-root pigweed	Amaranthaceae	mm 05	Dyer
0.3	<i>Sida</i>	<i>spinosa</i>	prickly sida	Malvaceae	mm 05	Dyer
0.3	<i>Asclepias</i>	<i>syriaca</i>	common ragweed	Asteraceae	mm 05	Dyer
0.3	<i>Setaria</i>	<i>glaucum</i>	yellow foxtail	Poaceae	mm 05	Dyer
0.3	<i>Cynanchum</i>	<i>laeve</i>	honeyvine milkweed	Asclepiadaceae	mm 05	Dyer
0.2	<i>Senna</i>	<i>obtusifolia</i>	sicklepod	Fabaceae	mm 05	Dyer
0.2	<i>Ipomoea</i>	<i>lacunosa</i>	pitted morning glory	Convolvulaceae	mm 05	Dyer
0.1	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 05	Dyer
0.0	<i>Amaranthus</i>	<i>palmeri</i>	palmer amaranth	Amaranthaceae	mm 05	Dyer

Appendix I. (Continued).

Interstate 81 (1 site)

% cover	<i>Genus</i>	<i>species</i>	common name	Family	MM	County
13.1	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 46	Greene
8.5	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm 46	Greene
8.3	<i>Robinia</i>	<i>pseudoacacia</i>	black locust	Fabaceae	mm 46	Greene
6.7	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 46	Greene
6.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 46	Greene
5.8	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 46	Greene
5.0	<i>Potentilla</i>	<i>canadensis</i>	dwarf cinquefoil	Rosaceae	mm 46	Greene
3.2	<i>Panicum</i>	<i>sp.</i>		Poaceae	mm 46	Greene
2.7	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar (seedling)	Cupressaceae	mm 46	Greene
2.6	<i>Centaurea</i>	<i>maculosa</i>	spotted knapweed	Asteraceae	mm 46	Greene
2.6	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 46	Greene
2.6	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 46	Greene
2.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 46	Greene
2.3	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 46	Greene
2.2	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 46	Greene
2.1	<i>Ambrosia</i>	<i>artemesifolia</i>	common ragweed	Asteraceae	mm 46	Greene
2.1	<i>Prunella</i>	<i>vulgaris</i>	heal all	Lamiaceae	mm 46	Greene
2.0	<i>Lysimachia</i>	<i>nummularia</i>	moneywort	Primulaceae	mm 46	Greene
2.0	<i>Senecio</i>	<i>sp.</i>	ragwort	Asteraceae	mm 46	Greene
1.7	<i>Desmodium</i>	<i>perplexum</i>	beggar's tick	Fabaceae	mm 46	Greene
1.7			a water weed		mm 46	Greene
1.6	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 46	Greene
1.3	<i>Vernonia</i>	<i>altissima</i>	ironweed	Asteraceae	mm 46	Greene
1.3	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 46	Greene
1.2	<i>Rhamnus</i>	<i>caroliniana</i>	Carolina buckthorn	Rhamnaceae	mm 46	Greene
1.2	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 46	Greene
1.1	<i>Achillea</i>	<i>millefolium</i>	yarrow (rosette)	Asteraceae	mm 46	Greene
1.1	<i>Diodia</i>	<i>teres</i>	poorjoe	Rubiaceae	mm 46	Greene
1.0	<i>Hypericum</i>	<i>perforatum</i>	St. John's-wort	Hypericaceae	mm 46	Greene
1.0	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 46	Greene
0.9	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm 46	Greene
0.8	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 46	Greene
0.7	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 46	Greene
0.6	<i>Aster</i>	<i>dumosus</i>	white heat aster	Asteraceae	mm 46	Greene
0.5	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 46	Greene
0.5	<i>Hieracium</i>	<i>carolinianum</i>	Carolina false dandelion	Asteraceae	mm 46	Greene
0.5	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 46	Greene
0.5	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 46	Greene
0.5	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 46	Greene
0.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 46	Greene
0.5	<i>Phleum</i>	<i>pratense</i>	timothy	Poaceae	mm 46	Greene
0.5	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 46	Greene
0.5	<i>Eupatorium</i>	<i>sessilifolium</i>	upland boneset	Asteraceae	mm 46	Greene
0.5	<i>Bromus</i>	<i>sp.</i>	brome	Poaceae	mm 46	Greene
0.5			unk. purple 5-petal		mm 46	Greene
0.4	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 46	Greene
0.4	<i>Juncus</i>	<i>tenuis</i>	slender rush	Cyperaceae	mm 46	Greene
0.3	<i>Dipsacus</i>	<i>fullonum</i>	teasel	Dipsacaceae	mm 46	Greene
0.2	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm 46	Greene
0.2	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 46	Greene
0.1	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 46	Greene
0.1	<i>Portulaca</i>	<i>oleracea</i>	purslane	Portulacaceae	mm 46	Greene

Appendix I. (Continued).

Interstate 75 (1 of 2 sites)

% cover	Genus	species	Common name	Family name	MM	County
20.7	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 54	McMinn
13.2	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 54	McMinn
8.1	<i>Setaria</i>	<i>pumilla</i>	yellow foxtail	Poaceae	mm 54	McMinn
8.0	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 54	McMinn
6.4	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 54	McMinn
4.4	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 54	McMinn
4.2	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 54	McMinn
3.5	<i>Kummerowia</i>	<i>stipulacea</i>	korean lespedeza	Fabaceae	mm 54	McMinn
3.0	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 54	McMinn
2.5	<i>Liquidambar</i>	<i>styaciflua</i>	sweet gum (seedling)	Hamamelidaceae	mm 54	McMinn
2.4	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 54	McMinn
2.1	<i>Digitaria</i>	<i>sanguinalis</i>	crabgrass	Poaceae	mm 54	McMinn
1.8	<i>Plantago</i>	<i>lanceolata</i>	lance leaf plantain	Plantaginaceae	mm 54	McMinn
1.7	<i>Setaria</i>	<i>faberi</i>	giant foxtail	Poaceae	mm 54	McMinn
1.5	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 54	McMinn
1.3	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 54	McMinn
1.2	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 54	McMinn
1.2	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm 54	McMinn
1.0	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 54	McMinn
1.0	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 54	McMinn
0.8	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 54	McMinn
0.7	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 54	McMinn
0.6	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 54	McMinn
0.5	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 54	McMinn
0.4	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 54	McMinn
0.4	<i>Eleusine</i>	<i>indica</i>	goose grass	Poaceae	mm 54	McMinn
0.3	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 54	McMinn
0.2	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm 54	McMinn
0.2	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 54	McMinn
0.1	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 54	McMinn
0.1	<i>Fraxinus</i>	<i>sp.</i>	ash (seedling)	Oleaceae	mm 54	McMinn
0.1	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 54	McMinn

Appendix I. (Continued).

Interstate 75 (2 of 2 sites)

% cover	Genus	species	Common name	Family name	MM	County
42.3	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 154	Campbell
14.3	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 154	Campbell
7.6	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 154	Campbell
6.8	<i>Cirsium</i>	<i>arvense</i>	Canada thistle	Asteraceae	mm 154	Campbell
5.2	<i>Poa</i>	<i>pretensis</i>	Kentucky bluegrass	Poaceae	mm 154	Campbell
3.7	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 154	Campbell
2.5	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 154	Campbell
1.5	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 154	Campbell
1.4	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 154	Campbell
1.3	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 154	Campbell
0.8	<i>Coronilla</i>	<i>varia</i>	crown vetch	Fabaceae	mm 154	Campbell
0.8	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 154	Campbell
0.7	<i>Polygonum</i>	<i>aviculare</i>	prostrate knotweed	Polygonaceae	mm 154	Campbell
0.6	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm 154	Campbell
0.5	<i>Ambrosia</i>	<i>artemisiifolia</i>	ragweed	Asteraceae	mm 154	Campbell
0.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 154	Campbell
0.5	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm 154	Campbell
0.4	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 154	Campbell
0.4			unknown grass	Poaceae	mm 154	Campbell
0.3	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 154	Campbell
0.3	<i>Prunella</i>	<i>vulgaris</i>	heal all	Lamiaceae	mm 154	Campbell
0.3	<i>Senecio</i>	<i>sp.</i>	ragwort	Asteraceae	mm 154	Campbell
0.2	<i>Lespedeza</i>	<i>stipulacea</i>	sericea lespedeza	Fabaceae	mm 154	Campbell
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 154	Campbell
0.2			unknown dicot seedling	mm 154	Campbell	
0.2	<i>Aster</i>	<i>sp. 2</i>	aster	Asteraceae	mm 154	Campbell
0.2	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 154	Campbell
0.2	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 154	Campbell
0.1	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 154	Campbell
0.1	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 154	Campbell
0.1	<i>Convolvulus</i>	<i>arvensis</i>	field bindweed	Asteraceae	mm 154	Campbell
0.1	<i>Pinus</i>	<i>sp.</i>	pine (seedling)	Pinaceae	mm 154	Campbell

Appendix I. (Continued).

Interstate 65 (1 of 3 sites)

% cover	Genus	species	common name	Family	MM	County
37.6	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 3	Giles
17.5	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 3	Giles
5.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 3	Giles
4.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 3	Giles
4.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Solanaceae	mm 3	Giles
4.3	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 3	Giles
3.6	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bignoniaceae	mm 3	Giles
3.0	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 3	Giles
2.0	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 3	Giles
1.9	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm 3	Giles
1.8	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 3	Giles
1.8	<i>Passiflora</i>	sp.	passion flower	Passifloraceae	mm 3	Giles
1.7	<i>Eragrostis</i>	<i>pectinacea</i>	lovegrass	Poaceae	mm 3	Giles
1.1	<i>Lactuca</i>	sp.		Asteraceae	mm 3	Giles
1.0	<i>Lonicera</i>	<i>morrowii</i>	honeysuckle	Caprifoliaceae	mm 3	Giles
1.0	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 3	Giles
0.6	<i>Ambrosia</i>	<i>artemesifolia</i>	common ragweed	Asteraceae	mm 3	Giles
0.5	<i>Cocculus</i>	<i>carolinus</i>	Carolina moonseed	Menispermaceae	mm 3	Giles
0.5	<i>Eupatorium</i>	sp.		Asteraceae	mm 3	Giles
0.5	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 3	Giles
0.5	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 3	Giles
0.4	<i>Robinia</i>	<i>pseudoacacia</i>	black locust	Fabaceae	mm 3	Giles
0.4	<i>Rubus</i>	sp.	blackberry	Rosaceae	mm 3	Giles
0.4	<i>Rudbeckia</i>	<i>hirta</i>	black-eyed Susan	Asteraceae	mm 3	Giles
0.3	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 3	Giles
0.2	<i>Monarda</i>	<i>fistulosa</i>	wild bergamot	Lamiaceae	mm 3	Giles
0.2	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 3	Giles
0.2			honey rust		mm 3	Giles
0.1	<i>Acalypha</i>	<i>virginiana</i>	Virginia copperleaf	Euphorbiaceae	mm 3	Giles
0.1	<i>Erigeron</i>	sp.	fleabane	Asteraceae	mm 3	Giles
0.1	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 3	Giles
0.1	<i>Sida</i>	<i>spinosa</i>	prickly sida	Malvaceae	mm 3	Giles
0.0	<i>Physalis</i>	sp.	smooth ground cherry	Solanaceae	mm 3	Giles

Appendix I. (Continued).

Interstate 65 (2 of 3 sites)

% cover	Genus	species	common name	Family	MM	County
21.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 58	Williamson
6.8	<i>Ambrosia</i>	<i>trifida</i>	giant ragweed	Asteraceae	mm 58	Williamson
6.5	<i>Echinochloa</i>	<i>crusgalli</i>	barnyard grass	Poaceae	mm 58	Williamson
6.3	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 58	Williamson
5.8	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm 58	Williamson
5.0	<i>Celtis</i>	<i>sp.</i>	hackberry	Ulmaceae	mm 58	Williamson
5.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 58	Williamson
4.7	<i>Dipsacus</i>	<i>fulonum</i>	teasel	Dipsacaceae	mm 58	Williamson
4.7	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 58	Williamson
3.8	<i>Oenothera</i>	<i>biennis</i>	evening primrose	Onagraceae	mm 58	Williamson
3.5	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 58	Williamson
2.7	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm 58	Williamson
2.6	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm 58	Williamson
2.5	<i>Cercis</i>	<i>canadensis</i>	red bud	Fabaceae	mm 58	Williamson
2.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 58	Williamson
2.4	<i>Acalypha</i>	<i>virginiana</i>	Virginia copperleaf	Euphorbiaceae	mm 58	Williamson
1.5	<i>Ambrosia</i>	<i>artemesifolia</i>	common ragweed	Asteraceae	mm 58	Williamson
1.5	<i>Aster</i>	<i>sp. 1</i>	aster	Asteraceae	mm 58	Williamson
1.5	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 58	Williamson
1.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Solanaceae	mm 58	Williamson
1.1	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 58	Williamson
1.0	<i>Juncus</i>	<i>effusis</i>	rush	Cyperaceae	mm 58	Williamson
1.0	<i>Juncus</i>	<i>tenuis</i>	slender rush	Cyperaceae	mm 58	Williamson
1.0	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 58	Williamson
1.0	<i>Ulmus</i>	<i>rubra</i>	slippery elm	Ulmaceae	mm 58	Williamson
0.8	<i>Asclepius</i>	<i>syriaca</i>	common ragweed	Asteraceae	mm 58	Williamson
0.6	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 58	Williamson
0.5	<i>Lactuca</i>	<i>canadensis</i>	wild lettuce	Asteraceae	mm 58	Williamson
0.5	<i>Platanus</i>	<i>occidentalis</i>	sycamore	Platanaceae	mm 58	Williamson
0.3	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 58	Williamson
0.3	<i>Erigeron</i>	<i>sp.</i>		Asteraceae	mm 58	Williamson
0.3	<i>Fraxinus</i>	<i>sp.</i>	ash (seedling)	Oleaceae	mm 58	Williamson
0.3			unknown (seedling)	Asteraceae	mm 58	Williamson
0.2	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 58	Williamson
0.2	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 58	Williamson
0.2	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 58	Williamson
0.2	<i>Sicyos</i>	<i>angulatus</i>	burr cucumber	Curbitaceae	mm 58	Williamson
0.1	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 58	Williamson
0.1	<i>Galinsoga</i>	<i>sp.</i>	(seedling)	Asteraceae	mm 58	Williamson
0.1	<i>Polygonum</i>	<i>pensylvanicum</i>	Pennsylvania smartweed	Polygonaceae	mm 58	Williamson
0.1	<i>Prunus</i>	<i>nigrus</i>	black cherry	Rosaceae	mm 58	Williamson
0.1	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 58	Williamson
0.1	<i>Aster</i>	<i>sp.2</i>	aster	Asteraceae	mm 58	Williamson
0.1			unknown tree (seedling)		mm 58	Williamson
0.0	<i>Physalis</i>	<i>sp.</i>	smooth ground cherry	Solanaceae	mm 58	Williamson

Appendix I. (Continued).

Interstate 65 (3 of 3 sites)

% cover	Genus	species	common name	Family	MM	County
20.1	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 112	Robertson
12.7	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 112	Robertson
9.5	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 112	Robertson
7.5	<i>Ulmus</i>	<i>rubra</i>	slippery elm	Ulmaceae	mm 112	Robertson
5.0	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 112	Robertson
4.1	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 112	Robertson
3.5	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 112	Robertson
3.5	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 112	Robertson
3.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 112	Robertson
2.7	<i>Vernonia</i>	<i>sp.</i>	ironweed	Asteraceae	mm 112	Robertson
2.5	<i>Geum</i>	<i>canadense</i>	white avens	Rosaceae	mm 112	Robertson
2.5	<i>Sisyrinchium</i>	<i>sp.</i>	blue-eyed grass	Iridaceae	mm 112	Robertson
2.2	<i>Aster</i>	<i>sp.</i>		Asteraceae	mm 112	Robertson
2.2	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 112	Robertson
2.0	<i>Setaria</i>	<i>faberi</i>	giant foxtail	Poaceae	mm 112	Robertson
2.0	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 112	Robertson
1.8	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 112	Robertson
1.5	<i>Cercis</i>	<i>canadensis</i>	redbud	Fabaceae	mm 112	Robertson
1.3	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 112	Robertson
1.2	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm 112	Robertson
1.0	<i>Eupatorium</i>	<i>sp.</i>	winged eupatorium	Asteraceae	mm 112	Robertson
1.0	<i>Polygonum</i>	<i>cespitosum</i>	knotweed	Polygonaceae	mm 112	Robertson
1.0	<i>Erechtites</i>	<i>hieracifolia</i>	fireweed	Onagraceae	mm 112	Robertson
0.9	<i>Celtis</i>	<i>sp.</i>	hackberry	Ulmaceae	mm 112	Robertson
0.9	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 112	Robertson
0.8	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm 112	Robertson
0.8	<i>Physalis</i>	<i>sp.</i>	smooth ground cherry	Solanaceae	mm 112	Robertson
0.8	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 112	Robertson
0.7	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 112	Robertson
0.7	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 112	Robertson
0.6	<i>Ambrosia</i>	<i>artemesifolia</i>	common ragweed	Asteraceae	mm 112	Robertson
0.5	<i>Ambrosia</i>	<i>trifida</i>	giant ragweed	Asteraceae	mm 112	Robertson
0.5	<i>Cocculus</i>	<i>carolinus</i>	Carolina moonseed	Menispermaceae	mm 112	Robertson
0.5	<i>Conyzza</i>	<i>canadensis</i>	horseweed	Asteraceae	mm 112	Robertson
0.5	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 112	Robertson
0.5	<i>Fragaria</i>	<i>sp.</i>	strawberry	Rosaceae	mm 112	Robertson
0.5	<i>Passiflora</i>	<i>sp.</i>	passion flower	Passifloraceae	mm 112	Robertson
0.5	<i>Juglans</i>	<i>nigra</i>	black walnut	Juglandaceae	mm 112	Robertson
0.3	<i>Eleusine</i>	<i>indica</i>	goose grass	Poaceae	mm 112	Robertson
0.3	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 112	Robertson
0.3	<i>Verbena</i>	<i>urticifolia</i>	white vervain	Verbenaceae	mm 112	Robertson
0.3	<i>Scutellaria</i>	<i>sp.</i>	heart skullcap	Lamiaceae	mm 112	Robertson
0.2	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 112	Robertson
0.2	<i>Bromus</i>	<i>sp.</i>		Poaceae	mm 112	Robertson
0.2	<i>Glecoma</i>	<i>hederacea</i>	gill-over-the-ground	Lamiaceae	mm 112	Robertson
0.2	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 112	Robertson
0.2	<i>Polygonum</i>	<i>aviculare</i>	prostrate knotweed	Polygonaceae	mm 112	Robertson
0.2	<i>Sida</i>	<i>spinosa</i>	prickly sida	Malvaceae	mm 112	Robertson
0.2	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 112	Robertson
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 112	Robertson
0.2	<i>Polygonum</i>	<i>convolvulus</i>	wild buckwheat	Polygonaceae	mm 112	Robertson
0.1	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 112	Robertson
0.1	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 112	Robertson

Appendix I. (Continued).

Interstate 24 (1 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
14.8	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 16	Montgomery
7.9	<i>Lespedeza</i>	<i>sp.</i>		Fabaceae	mm 16	Montgomery
7.5	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 16	Montgomery
6.4	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm 16	Montgomery
5.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 16	Montgomery
5.0	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 16	Montgomery
4.2	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 16	Montgomery
3.5	<i>Medicago</i>	<i>sativa</i>	alfalfa	Fabaceae	mm 16	Montgomery
3.5			undetermined grass	Poaceae	mm 16	Montgomery
3.3	<i>Lespedeza</i>	<i>cuneata</i>	sericea lanceolata	Fabaceae	mm 16	Montgomery
3.2	<i>Eupatorium</i>	<i>sp.</i>	thoroughwort	Asteraceae	mm 16	Montgomery
3.0	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 16	Montgomery
3.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 16	Montgomery
3.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 16	Montgomery
2.8	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 16	Montgomery
2.7	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 16	Montgomery
2.5	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 16	Montgomery
2.0	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 16	Montgomery
1.7	<i>Diodia</i>	<i>teres</i>	poorjoe	Rubiaceae	mm 16	Montgomery
1.5	<i>Desmodium</i>	<i>perplexum</i>	beggar's tick	Fabaceae	mm 16	Montgomery
1.1	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 16	Montgomery
1.0	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 16	Montgomery
1.0	<i>Setaria</i>	<i>pumilla</i>	yellow foxtail	Poaceae	mm 16	Montgomery
0.6	<i>Digitaria</i>	<i>sanguinalis</i>	crabgrass	Poaceae	mm 16	Montgomery
0.6	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar (seedling)	Cupressaceae	mm 16	Montgomery
0.5	<i>Cirsium</i>	<i>discolor</i>	bull thistle	Asteraceae	mm 16	Montgomery
0.5	<i>Euphorbia</i>	<i>dentata</i>	tooth leaved spurge	Euphorbiaceae	mm 16	Montgomery
0.5	<i>Lespedeza</i>	<i>sp.</i>		Lamiaceae	mm 16	Montgomery
0.5	<i>Sassafrass</i>	<i>sp.</i>	sassafrass	Lauraceae	mm 16	Montgomery
0.5	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 16	Montgomery
0.4	<i>Euphorbia</i>	<i>corollata</i>	flowering spurge	Euphorbiaceae	mm 16	Montgomery
0.4	<i>Ligustrum</i>	<i>sinense</i>	common privet	Oleaceae	mm 16	Montgomery
0.4	<i>Setaria</i>	<i>faberi</i>	giant foxtail	Poaceae	mm 16	Montgomery
0.4	<i>Silphium</i>	<i>integerrifolium</i>	rosin weed	Asteraceae	mm 16	Montgomery
0.3	<i>Aster</i>	<i>dumosus</i>	white heath aster	Asteraceae	mm 16	Montgomery
0.3	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 16	Montgomery
0.2	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 16	Montgomery
0.2	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 16	Montgomery
0.1	<i>Acalypha</i>	<i>virginiana</i>	Virginia copperleaf	Euphorbiaceae	mm 16	Montgomery
0.1	<i>Lactuca</i>	<i>serriola</i>	prickly lettuce	Asteraceae	mm 16	Montgomery
0.1	<i>Pontentilla</i>	<i>simplex</i>	oldfield cinquefoil	Rosaceae	mm 16	Montgomery
0.1	<i>Quercus</i>	<i>rubra</i>	red oak	Fagaceae	mm 16	Montgomery
0.1	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 16	Montgomery

Appendix I. (Continued).

Interstate 24 (2 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
21.3	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 71	Rutherford
9.8	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 71	Rutherford
8.0	<i>Fescue</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 71	Rutherford
5.0	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm 71	Rutherford
3.8	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 71	Rutherford
3.5	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 71	Rutherford
2.4	<i>Setaria</i>	<i>pumilla</i>	yellow foxtail	Poaceae	mm 71	Rutherford
2.0	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 71	Rutherford
2.0	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 71	Rutherford
1.9	<i>Kummerowia</i>	<i>stipulacea</i>	korean lespedeza	Fabaceae	mm 71	Rutherford
1.8	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 71	Rutherford
1.7	<i>Desmanthus</i>	<i>illinoensis</i>	prairie mimosia	Fabaceae	mm 71	Rutherford
1.6	<i>Aster</i>	<i>dumosus</i>	white heat aster	Asteraceae	mm 71	Rutherford
1.5	<i>Opuntia</i>	<i>humifusa</i>	prickly pear cactus	Cactaceae	mm 71	Rutherford
1.4	<i>Lactuca</i>	<i>serriola</i>	prickly lettuce	Asteraceae	mm 71	Rutherford
1.3	<i>Carduus</i>	<i>nutans</i>	musk thistle (dead)	Asteraceae	mm 71	Rutherford
1.3	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 71	Rutherford
1.0	<i>Verbascum</i>	<i>blattaria</i>	moth mullein	Scrophulariaceae	mm 71	Rutherford
1.0	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 71	Rutherford
1.0	<i>Portulaca</i>	<i>oleracea</i>	purslane	Portulacaceae	mm 71	Rutherford
1.0	<i>Helenium</i>	<i>amarum</i>	bitter sneezeweed	Asteraceae	mm 71	Rutherford
1.0	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm 71	Rutherford
1.1	<i>Potentilla</i>	<i>recta</i>	sulfur cinquefoil	Rosaceae	mm 71	Rutherford
0.9	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 71	Rutherford
0.5	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 71	Rutherford
0.5	<i>Plantago</i>	<i>lanceolata</i>	buckhorn plantain	Plantaginaceae	mm 71	Rutherford
0.5			ferns		mm 71	Rutherford
0.5	<i>Geum</i>	<i>canadense</i>	white avens	Rosaceae	mm 71	Rutherford
0.4	<i>Sida</i>	<i>spinosa</i>	prickly sida	Malvaceae	mm 71	Rutherford
0.3	<i>Physalis</i>	<i>sp.</i>	smooth ground cherry	Solanaceae	mm 71	Rutherford
0.2	<i>Verbena</i>	<i>simplex</i>	hoary vervain	Verbenaceae	mm 71	Rutherford
0.2	<i>Erigeron</i>	<i>canadensis</i>	horseweed	Asteraceae	mm 71	Rutherford
0.1	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 71	Rutherford

Appendix I. (Continued).

Interstate 24 (3 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
23.6	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 117	Coffee
12.0	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 117	Coffee
5.0	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 117	Coffee
5.0	<i>Eupatorium</i>	<i>coelostinum</i>	mistflower	Asteraceae	mm 117	Coffee
4.8	<i>Commelina</i>	<i>sp.</i>	dayflower	Commelinaceae	mm 117	Coffee
4.5	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 117	Coffee
3.3	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 117	Coffee
3.0	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 117	Coffee
3.0	<i>Setaria</i>	<i>glauca</i>	yellow foxtail	Poaceae	mm 117	Coffee
3.0	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 117	Coffee
2.8	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 117	Coffee
2.2	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 117	Coffee
2.1			unk. grass (keeled flat)	Poaceae	mm 117	Coffee
2.0	<i>Rhexia</i>	<i>marylandica</i>	Maryland deergrass	Melastomataceae	mm 117	Coffee
1.9	<i>Cyperus</i>	<i>sp.</i>	sedge	Cyperaceae	mm 117	Coffee
1.8	<i>Plantago</i>	<i>major</i>	plantain	Plantaginaceae	mm 117	Coffee
1.7	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 117	Coffee
1.5	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 117	Coffee
1.5	<i>Liquidambar</i>	<i>styraciflua</i>	sweet gum	Hamamelidaceae	mm 117	Coffee
1.5	<i>Potentilla</i>	<i>simplex</i>	oldfield cinquefoil	Rosaceae	mm 117	Coffee
1.1	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 117	Coffee
1.0	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 117	Coffee
1.0	<i>Diodia</i>	<i>teres</i>	poorjoe	Rubiaceae	mm 117	Coffee
1.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 117	Coffee
1.0	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 117	Coffee
0.9	<i>Juncus</i>	<i>tenuis</i>	slender rush	Cyperaceae	mm 117	Coffee
0.8	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 117	Coffee
0.8	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 117	Coffee
0.8	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm 117	Coffee
0.8	<i>Rhamnus</i>	<i>carolinianus</i>	Carolina buckthorn	Rhamnaceae	mm 117	Coffee
0.8	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 117	Coffee
0.7	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Solanceae	mm 117	Coffee
0.7	<i>Kummerowia</i>	<i>stipulacea</i>	korean lespedeza	Fabaceae	mm 117	Coffee
0.6	<i>Pinus</i>	<i>sp.</i>	shortleaf pine	Pinaceae	mm 117	Coffee
0.5	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 117	Coffee
0.5	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm 117	Coffee
0.5	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 117	Coffee
0.5	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 117	Coffee
0.5	<i>Acalypha</i>	<i>virginiana</i>	Virginia copperleaf	Euphorbiaceae	mm 117	Coffee
0.5	<i>Prunella</i>	<i>vulgaris</i>	heal all	Lamiaceae	mm 117	Coffee
0.5	<i>Geum</i>	<i>virginianum</i>	Virginia avens	Rosaceae	mm 117	Coffee
0.5	<i>Eupatorium</i>	<i>leucolepis</i>	white bracted thoroughwort	Asteraceae	mm 117	Coffee
0.4	<i>Passiflora</i>	<i>incarnata</i>	maypop	Passifloraceae	mm 117	Coffee
0.4	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 117	Coffee
0.4	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 117	Coffee
0.3	<i>Bidens</i>	<i>sp.</i>	beggar's ticks	Asteraceae	mm 117	Coffee
0.3	<i>Ludwigia</i>	<i>alterniflora</i>	seedbox	Onagraceae	mm 117	Coffee
0.2	<i>Panicum</i>	<i>sp.</i>	panic grass 2	Poaceae	mm 117	Coffee
0.2	<i>Xanthium</i>	<i>strumarium</i>	cocklebur	Asteraceae	mm 117	Coffee
0.2	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 117	Coffee
0.2	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 117	Coffee
0.2	<i>Eupatorium</i>	<i>perfoliatum</i>	boneset	Asteraceae	mm 117	Coffee
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 117	Coffee
0.1	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 117	Coffee

Appendix I. (Continued).

Interstate 24 (4 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
16.9	<i>Solidago</i>	sp.	goldenrod	Asteraceae	mm 164	Marion
8.6	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 164	Marion
7.8	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bigoniaceae	mm 164	Marion
7.4	<i>Aster</i>	sp.	aster	Asteraceae	mm 164	Marion
6.6	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 164	Marion
5.4	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 164	Marion
4.5	<i>Ligustrum</i>	<i>sinense</i>	privet	Oleraceae	mm 164	Marion
4.3	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 164	Marion
3.8	<i>Desmanthus</i>	<i>illinoensis</i>	prairie mimosa	Fabaceae	mm 164	Marion
3.5	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 164	Marion
3.0	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 164	Marion
3.0	<i>Salix</i>	<i>nigra</i>	black willow	Salicaceae	mm 164	Marion
2.8	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 164	Marion
2.5	<i>Physalis</i>	sp.	smooth ground cherry	Solanaceae	mm 164	Marion
2.2	<i>Lonicera</i>	<i>japonicum</i>	Japanese honeysuckle	Caprifoliaceae	mm 164	Marion
2.2	<i>Sambucus</i>	<i>canadensis</i>	elderberry	Caprifoliaceae	mm 164	Marion
2.1	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 164	Marion
2.0	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 164	Marion
1.8	<i>Verbascum</i>	<i>thapsus</i>	common mullein	Scrophulariaceae	mm 164	Marion
1.7	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 164	Marion
1.3	<i>Passiflora</i>	<i>incarnatum</i>	passionflower	Passifloraceae	mm 164	Marion
1.0	<i>Rubus</i>	sp.	blackberry	Rosaceae	mm 164	Marion
0.8	<i>Verbena</i>	<i>urticifolia</i>	white vervain	Verbenaceae	mm 164	Marion
0.6	<i>Aster</i>	<i>novae-angliae</i>	New England aster	Asteraceae	mm 164	Marion
0.6	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 164	Marion
0.5	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 164	Marion
0.5	<i>Vitis</i>	sp.	grapevine	Vitaceae	mm 164	Marion
0.5	<i>Cocculus</i>	<i>carolinus</i>	Carolina moonseed	Menispermaceae	mm 164	Marion
0.4	<i>Fagopyrum</i>	sp.	buckwheat	Polygonaceae	mm 164	Marion
0.4	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 164	Marion
0.3	<i>Acalypha</i>	<i>virginiana</i>	Virginia copperleaf	Euphorbiaceae	mm 164	Marion
0.3	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 164	Marion
0.3	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 164	Marion
0.3	<i>Desmodium</i>	sp.	beggar's tick	Fabaceae	mm 164	Marion

Appendix I. (Continued).

Interstate 40 (1 of 9 sites)

% cover	Genus	species	Common name	Family	MM	County
14.5	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 03	Shelby
10.8	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 03	Shelby
8.9	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 03	Shelby
8.5	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 03	Shelby
6.9	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 03	Shelby
6.5	<i>Erianthus</i>	<i>alopecuroides</i>	beardgrass	Poaceae	mm 03	Shelby
6.5	<i>Chloris</i>	<i>virgata</i>	feather finger grass	Poaceae	mm 03	Shelby
6.0	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 03	Shelby
4.5	<i>Eleusine</i>	<i>indica</i>	goose grass	Poaceae	mm 03	Shelby
3.0	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm 03	Shelby
2.6	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 03	Shelby
2.5	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 03	Shelby
2.0	<i>Crataegus</i>	<i>oxycantha</i>	English hawthorn	Rosaceae	mm 03	Shelby
1.9	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 03	Shelby
1.8	<i>Oenothera</i>	<i>biennis</i>	evening primrose	Onagraceae	mm 03	Shelby
1.7	<i>Ulmus</i>	<i>rubra</i>	slippery elm	Ulmaceae	mm 03	Shelby
1.4	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Solanaceae	mm 03	Shelby
0.7	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 03	Shelby
0.5	<i>Cocculus</i>	<i>carolinus</i>	Carolina snailseed	Menispermaceae	mm 03	Shelby
0.5	<i>Tridens</i>	<i>flavus</i>	purple top	Poaceae	mm 03	Shelby
0.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 03	Shelby
0.3	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 03	Shelby

Appendix I. (Continued).

Interstate 40 (2 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
25.5	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 51	Haywood
12.1	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 51	Haywood
11.7	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 51	Haywood
10.3	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 51	Haywood
7.4	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 51	Haywood
6.0	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm 51	Haywood
4.5	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 51	Haywood
3.5	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 51	Haywood
3.3	<i>Paspalum</i>	<i>laeve</i>		Poaceae	mm 51	Haywood
3.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 51	Haywood
2.3	<i>Campsis</i>	<i>radicans</i>	Trumpet creeper	Bignoniaceae	mm 51	Haywood
2.3	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 51	Haywood
2.2	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 51	Haywood
1.9	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 51	Haywood
1.8	<i>Diospyros</i>	<i>virginiana</i>	persimmon	Ebenaceae	mm 51	Haywood
1.4	<i>Apocynum</i>	<i>androsaemifolium</i>	dogbane	Apocynaceae	mm 51	Haywood
1.3	<i>Coreopsis</i>	<i>tinctoria</i>	coreopsis	Asteraceae	mm 51	Haywood
1.3	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 51	Haywood
1.2	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleacea	mm 51	Haywood
0.5	<i>Digitaria</i>	<i>sanguinalis</i>	lg. crabgrass	Poaceae	mm 51	Haywood
0.5	<i>Erigeron</i>	<i>canadensis</i>	horseweed	Asteraceae	mm 51	Haywood
0.5	<i>Helemium</i>	<i>amarum</i>	bitter sneezeweed	Asteraceae	mm 51	Haywood
0.4	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 51	Haywood
0.3	<i>Rudbeckia</i>	<i>hirta</i>	black-eyed Susan	Asteraceae	mm 51	Haywood
0.2	<i>Melothria</i>	<i>pendula</i>	wild cucumber	Cucurbitaceae	mm 51	Haywood
0.1	<i>Euphorbia</i>	<i>maculata</i>	prostrate spurge	Euphorbiaceae	mm 51	Haywood
0.1	<i>Sida</i>	<i>spinosa</i>	prickly sida	Malvaceae	mm 51	Haywood

Appendix I. (Continued).

Interstate 40 (3 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
15.6	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm102	Henderson
14.3	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm102	Henderson
9.8	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm102	Henderson
6.0	<i>Paspalum</i>	<i>sp.</i>		Poaceae	mm102	Henderson
5.0	<i>Eupatorium</i>	<i>fistulosum</i>	Joe-Pye-weed	Asteraceae	mm102	Henderson
5.0	<i>Helenium</i>	<i>amarun</i>	bitter sneezeweed	Asteraceae	mm102	Henderson
4.0	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm102	Henderson
3.5	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm102	Henderson
3.4	<i>Fagopyrum</i>	<i>esculentum</i>	wild buckwheat	Polygonaceae	mm102	Henderson
3.4	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm102	Henderson
3.0	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm102	Henderson
3.0	<i>Eranthus</i>	<i>alopecturoides</i>	beardgrass	Poaceae	mm102	Henderson
2.8	<i>Diodia</i>	<i>virginiana</i>	Virginia buttonweed	Rubiaceae	mm102	Henderson
2.5	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm102	Henderson
1.9	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm102	Henderson
1.8	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm102	Henderson
1.7	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm102	Henderson
1.5	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm102	Henderson
1.4	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm102	Henderson
1.4	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm102	Henderson
1.3	<i>Carduus</i>	<i>nutans</i>	musk thistle (dead)	Asteraceae	mm102	Henderson
1.2			unknown aster	Asteraceae	mm102	Henderson
1.0	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm102	Henderson
1.0	<i>Eupatorium</i>	<i>sp.</i>	blue bone set	Asteraceae	mm102	Henderson
0.9	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bignoniaceae	mm102	Henderson
0.8	<i>Aster</i>	<i>dumosus</i>	bushy aster	Asteraceae	mm102	Henderson
0.8	<i>Coreopsis</i>	<i>sinuata</i>	coreopsis	Asteraceae	mm102	Henderson
0.8	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm102	Henderson
0.8	<i>Verbena</i>	<i>urticifolia</i>	white vervain	Verbenaceae	mm102	Henderson
0.7	<i>Digitaria</i>	<i>sanguinalis</i>	giant crabgrass	Poaceae	mm102	Henderson
0.7	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm102	Henderson
0.7	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm102	Henderson
0.6	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm102	Henderson
0.6	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm102	Henderson
0.5	<i>Asclepias</i>	<i>tuberosa</i>	butterfly weed	Asteraceae	mm102	Henderson
0.5	<i>Helianthus</i>	<i>angustifolius</i>	sunflower	Asteraceae	mm102	Henderson
0.5	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm102	Henderson
0.4	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm102	Henderson
0.4	<i>Eupatorium</i>	<i>perfoliatum</i>	bone set	Asteraceae	mm102	Henderson
0.4	<i>Liquidambar</i>	<i>styraciflua</i>	sweet gum	Hamamelidaceae	mm102	Henderson
0.4	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm102	Henderson
0.3	<i>Clematis</i>	<i>virginiana</i>	virgin's bower	Ranunculaceae	mm102	Henderson
0.3	<i>Melothria</i>	<i>pendula</i>	wild cucumber	Cucurbitaceae	mm102	Henderson
0.3	<i>Geum</i>	<i>sp.</i>	avens	Rosaceae	mm102	Henderson
0.3	<i>Lactuca</i>	<i>canadensis</i>	wild lettuce	Asteraceae	mm102	Henderson
0.3	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm102	Henderson
0.3	<i>Bidens</i>	<i>sp.</i>	beggar's ticks	Asteraceae	mm102	Henderson
0.2	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm102	Henderson
0.2	<i>Fragaria</i>	<i>virginiana</i>	strawberry	Rosaceae	mm102	Henderson
0.2	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm102	Henderson
0.2	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm102	Henderson
0.1	<i>Apocynum</i>	<i>cannibinum</i>	hemp dogbane	Apocynaceae	mm102	Henderson
0.1	<i>Cersis</i>	<i>canadensis</i>	redbud	Fabaceae	mm102	Henderson
0.1	<i>Ulmus</i>	<i>alata</i>	winged elm (seedling)	Ulmaceae	mm102	Henderson

Appendix I. (Continued).

Interstate 40 (4 of 9 sites)

% cover	Genus	species	Common name	Family	MM	County
13.5	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm155.3	Hickman
13.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm155.3	Hickman
12.6	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm155.3	Hickman
12.0	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm155.3	Hickman
9.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm155.3	Hickman
5.0	<i>Eragrostis</i>	<i>curvula</i>	weeping lovegrass	Poaceae	mm155.3	Hickman
4.5	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm155.3	Hickman
3.5	<i>Eupatorium</i>	<i>sp.</i>	winged eupatorium	Asteraceae	mm155.3	Hickman
3.0	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm155.3	Hickman
2.8	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm155.3	Hickman
2.7	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm155.3	Hickman
2.5	<i>Agrimonia</i>	<i>parviflora</i>	agrimony	Rosaceae	mm155.3	Hickman
2.3	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm155.3	Hickman
1.8	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm155.3	Hickman
1.7	<i>Polygonum</i>	<i>pensylvanicum</i>	Pennsylvania smartweed	Polygonaceae	mm155.3	Hickman
1.6	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm155.3	Hickman
1.6	<i>Polygonum</i>	<i>convolvulus</i>	wild buckwheat	Polygonaceae	mm155.3	Hickman
1.5	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm155.3	Hickman
1.5	<i>Eupatorium</i>	<i>fistulosm</i>	Joe-Pye-weed	Asteraceae	mm155.3	Hickman
1.1	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm155.3	Hickman
1.1	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bignoniaceae	mm155.3	Hickman
1.1	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm155.3	Hickman
1.0	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm155.3	Hickman
1.0	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm155.3	Hickman
0.9	<i>Hypericum</i>	<i>perforatum</i>	St. John's-wort	Hypericaceae	mm155.3	Hickman
0.9	<i>Trifolium</i>	<i>repens</i>	white clover	Fabaceae	mm155.3	Hickman
0.8	<i>Verbena</i>	<i>urticifolia</i>	white vervain	Verbenaceae	mm155.3	Hickman
0.7	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm155.3	Hickman
0.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm155.3	Hickman
0.5	<i>Paulownia</i>	<i>tomentosa</i>	princess tree	Scrophulariaceae	mm155.3	Hickman
0.5	<i>Plantago</i>	<i>rugelii</i>	broadleaf plantain	Plantaginaceae	mm155.3	Hickman
0.5	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm155.3	Hickman
0.2	<i>Bromus</i>	<i>japonica</i>	Japanese brome (dead)	Poaceae	mm155.3	Hickman
0.2	<i>Juncus</i>	<i>tenuis</i>	slender rush	Cyperaceae	mm155.3	Hickman
0.1	<i>Allium</i>	<i>vineale</i>	field garlic (dead)	Liliaceae	mm155.3	Hickman

Appendix I. (Continued).

Interstate 40 (5 of 9 sites)

% cover	Genus	species	Common name	Family	MM	County
17.0	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar (seedling)	Cupressaceae	mm237	Wilson
9.8	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm237	Wilson
8.7	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm237	Wilson
8.3	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm237	Wilson
8.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm237	Wilson
3.7	<i>Perrilla</i>	<i>frutescens</i>	beefsteak plant	Lamiaceae	mm237	Wilson
3.6	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm237	Wilson
3.0	<i>Potentilla</i>	<i>simplex</i>	oldfield cinquefoil	Rosaceae	mm237	Wilson
3.0	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm237	Wilson
2.5	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm237	Wilson
2.5	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm237	Wilson
2.4	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm237	Wilson
2.1	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm237	Wilson
1.9	<i>Rhus</i>	<i>aromatica</i>	aromatic sumac	Anacardiaceae	mm237	Wilson
1.4	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm237	Wilson
1.3	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm237	Wilson
1.3	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm237	Wilson
1.3	<i>Aster</i>	<i>pilosus</i>	white heath aster	Asteraceae	mm237	Wilson
1.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm237	Wilson
1.0	<i>Passiflora</i>	<i>incarnata</i>	maypop	Passifloraceae	mm237	Wilson
1.0	<i>Helianthus</i>	<i>sp.</i>	sunflower	Asteraceae	mm237	Wilson
1.0	<i>Panicum</i>	<i>sp.</i>		Poaceae	mm237	Wilson
1.0			unknown grass	Poaceae	mm237	Wilson
1.0	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm237	Wilson
1.0	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm237	Wilson
0.9	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm237	Wilson
0.8	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm237	Wilson
0.8	<i>Opuntia</i>	<i>humifusa</i>	prickly pear cactus	Cactaceae	mm237	Wilson
0.8	<i>Centaurea</i>	<i>sp.</i>		Asteraceae	mm237	Wilson
0.8	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm237	Wilson
0.7	<i>Verbesina</i>	<i>occidentalis</i>	yellow crown-beard	Asteraceae	mm237	Wilson
0.7	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm237	Wilson
0.6	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm237	Wilson
0.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm237	Wilson
0.5	<i>Eragrostis</i>	<i>sp.</i>	lovegrass	Poaceae	mm237	Wilson
0.5	<i>Cirsium</i>	<i>sp.</i>	thistle	Asteraceae	mm237	Wilson
0.5	<i>Celtis</i>	<i>sp.</i>	hackberry (seedling)	Ulmaceae	mm237	Wilson
0.5	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm237	Wilson
0.5	<i>Dipsacus</i>	<i>fullonum</i>	teasel	Dipsacaceae	mm237	Wilson
0.4	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm237	Wilson
0.4	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm237	Wilson
0.4	<i>Fragaria</i>	<i>virginiana</i>	strawberry	Rosaceae	mm237	Wilson
0.3	<i>Physalis</i>	<i>heterophylla</i>	ground cherry	Solanaceae	mm237	Wilson
0.3	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm237	Wilson
0.2	<i>Verbascum</i>	<i>blattaria</i>	moth mullein	Scrophulariaceae	mm237	Wilson
0.2	<i>Sida</i>	<i>spinosa</i>	prickly sida	Malvaceae	mm237	Wilson
0.2	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm237	Wilson
0.2	<i>Lactuca</i>	<i>canadensis</i>	wild lettuce	Asteraceae	mm237	Wilson
0.2	<i>Geum</i>	<i>sp.</i>	avens	Rosaceae	mm237	Wilson
0.2	<i>Cuscuta</i>	<i>sp.</i>	dodder	Convolvulaceae	mm237	Wilson
0.2	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm237	Wilson
0.2	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm237	Wilson
0.1	<i>Melilotus</i>	<i>officinalis</i>	yellow sweet clover	Fabaceae	mm237	Wilson

Appendix I. (Continued).

Interstate 40 (6 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
11.8	<i>Pueraria</i>	<i>lobata</i>	kudzu	Fabaceae	mm 286.7	Putnam
8.0	<i>Celastrus</i>	<i>orbiculatus</i>	oriental bittersweet	Celastraceae	mm 286.7	Putnam
6.5	<i>Agrimonia</i>	<i>parviflora</i>	agrimony	Rosaceae	mm 286.7	Putnam
5.8	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 286.7	Putnam
5.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 286.7	Putnam
5.0	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 286.7	Putnam
5.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 286.7	Putnam
5.0	<i>Grindelia</i>	<i>lanceolata</i>	lanceleaf gumweed	Asteraceae	mm 286.7	Putnam
4.8	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 286.7	Putnam
4.1	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 286.7	Putnam
4.0	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 286.7	Putnam
4.0	<i>Rhamnus</i>	<i>caroliniana</i>	Carolina buckthorn	Rhamnaceae	mm 286.7	Putnam
4.0	<i>Bidens</i>	<i>sp.</i>	beggar's ticks	Asteraceae	mm 286.7	Putnam
3.5	<i>Bromus</i>	<i>japonica</i>	Japanese brome (dead)	Poaceae	mm 286.7	Putnam
3.5	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 286.7	Putnam
3.3	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 286.7	Putnam
3.0	<i>Melilotus</i>	<i>alba</i>	white sweet clover	Fabaceae	mm 286.7	Putnam
2.5	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 286.7	Putnam
2.4	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 286.7	Putnam
1.8	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 286.7	Putnam
0.8	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bignoniaceae	mm 286.7	Putnam
0.8	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 286.7	Putnam
0.8	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 286.7	Putnam
0.8	<i>Eupatorium</i>	<i>sp.</i>	winged eupatorium	Asteraceae	mm 286.7	Putnam
0.8	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 286.7	Putnam
0.8	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 286.7	Putnam
0.7	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 286.7	Putnam
0.5	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 286.7	Putnam
0.5	<i>Ipomoea</i>	<i>pandurata</i>	man root	Convolvulaceae	mm 286.7	Putnam
0.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 286.7	Putnam
0.5	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 286.7	Putnam
0.5	<i>Typha</i>	<i>latifolia</i>	common cat-tail	Typhaceae	mm 286.7	Putnam
0.5	<i>Xanthium</i>	<i>strumarium</i>	common cocklebur	Asteraceae	mm 286.7	Putnam
0.3	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 286.7	Putnam
0.3	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 286.7	Putnam
0.3	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 286.7	Putnam
0.2	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 286.7	Putnam

Appendix I. (Continued).

Interstate 40 (7 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
14.0	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 337	Cumberland
12.6	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 337	Cumberland
11.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 337	Cumberland
6.8	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 337	Cumberland
6.3	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 337	Cumberland
4.9	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 337	Cumberland
4.1	<i>Bromus</i>	<i>tectorum</i>	downy brome (dead)	Poaceae	mm 337	Cumberland
4.0	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 337	Cumberland
4.0	<i>Prunella</i>	<i>vulgaris</i>	heal all	Lamiaceae	mm 337	Cumberland
4.0	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 337	Cumberland
3.7	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 337	Cumberland
3.5	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm 337	Cumberland
3.3	<i>Croton</i>	<i>monanthagynus</i>	prairie tea	Euphorbiaceae	mm 337	Cumberland
2.6	<i>Potentilla</i>	<i>simplex</i>	oldfield cinquefoil	Rosaceae	mm 337	Cumberland
2.5	<i>Dioscorea</i>	<i>sp.</i>	wild yam	Dioscoreaceae	mm 337	Cumberland
2.0	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 337	Cumberland
1.7	<i>Galium</i>	<i>sp.</i>	small leafed whorled	Rubiaceae	mm 337	Cumberland
1.7	<i>Solidago</i>	<i>species</i>	goldenrod	Asteraceae	mm 337	Cumberland
1.5	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 337	Cumberland
1.5	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 337	Cumberland
1.3	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 337	Cumberland
1.3	<i>Senecio</i>	<i>sp.</i>	ragwort (rosette)	Asteraceae	mm 337	Cumberland
1.0	<i>Commelina</i>	<i>sp.</i>	dayflower	Commelinaceae	mm 337	Cumberland
1.0	<i>Pycanthemum</i>	<i>incanum</i>	mountain mint	Lamiaceae	mm 337	Cumberland
0.9	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 337	Cumberland
0.8	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 337	Cumberland
0.7	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 337	Cumberland
0.6	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 337	Cumberland
0.5	<i>Coreopsis</i>	<i>major</i>	coreopsis	Asteraceae	mm 337	Cumberland
0.5	<i>Geum</i>	<i>sp.</i>	avens	Rosaceae	mm 337	Cumberland
0.5	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 337	Cumberland
0.5	<i>Verbascum</i>	<i>thapsus</i>	woolly mullein	Scrophulariaceae	mm 337	Cumberland
0.3	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 337	Cumberland
0.2	<i>Euphorbia</i>	<i>sp.</i>	wood spurge	Euphorbiaceae	mm 337	Cumberland
0.2	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 337	Cumberland
0.2	<i>Pinus</i>	<i>sp.</i>	pine (seedling)	Pinaceae	mm 337	Cumberland
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 337	Cumberland
0.2	<i>Verbena</i>	<i>simplex</i>	hoary vervain	Verbenaceae	mm 337	Cumberland
0.1	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 337	Cumberland
0.1	<i>Medicago</i>	<i>sativa</i>	alfalfa	Fabaceae	mm 337	Cumberland
0.1	<i>Prunus</i>	<i>serotina</i>	black cherry (seedling)	Rosaceae	mm 337	Cumberland
0.1	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 337	Cumberland
0.1	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm 337	Cumberland

Appendix I. (Continued).

Interstate 40 (8 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
18.9	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 384	Knox
17.8	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 384	Knox
17.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 384	Knox
9.4	<i>Convolvulus</i>	<i>arvensis</i>	field bindweed	Asteraceae	mm 384	Knox
7.7	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 384	Knox
5.5	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm 384	Knox
4.3	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 384	Knox
2.4	<i>Plantago</i>	<i>lanceolata</i>	buckhorn plantain	Plantaginaceae	mm 384	Knox
2.4	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 384	Knox
2.0	<i>Ailanthus</i>	<i>altissima</i>	tree-of-heaven	Simaroubaceae	mm 384	Knox
1.8	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 384	Knox
1.8	<i>Solidago</i>	sp.	goldenrod	Asteraceae	mm 384	Knox
1.8	<i>Fragaria</i>	<i>virginia</i>	strawberry	Rosaceae	mm 384	Knox
1.0	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 384	Knox
1.0	<i>Viola</i>	sp.	violet	Violaceae	mm 384	Knox
0.8	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 384	Knox
0.7	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm 384	Knox
0.5	<i>Rubus</i>	sp.	blackberry	Rosaceae	mm 384	Knox
0.5	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 384	Knox
0.4	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 384	Knox
0.4	<i>Cynanchum</i>	<i>laeve</i>	honeyvine milkweed	Asclepiadaceae	mm 384	Knox
0.3	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 384	Knox
0.3	<i>Physalis</i>	sp.	smooth ground cherry	Solanaceae	mm 384	Knox
0.3	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 384	Knox
0.2	<i>Trifolium</i>	<i>repens</i>	white clover	Fabaceae	mm 384	Knox
0.2	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 384	Knox
0.1	<i>Euphorbia</i>	<i>commutata</i>	wood spurge	Euphorbiaceae	mm 384	Knox

Appendix I. (Continued).

Interstate 40 (9 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
14.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 447	Cocke
13.6	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 447	Cocke
7.5	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 447	Cocke
6.2	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 447	Cocke
4.7	<i>Clematis</i>	<i>virginiana</i>	virgin's bower	Ranunculaceae	mm 447	Cocke
4.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 447	Cocke
3.7	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 447	Cocke
3.5	<i>Rudbeckia</i>	<i>lacinata</i>	coneflower	Asteraceae	mm 447	Cocke
3.2	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 447	Cocke
3.0	<i>Diodia</i>	<i>virginiana</i>	Virginia buttonweed	Rubiaceae	mm 447	Cocke
2.8	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm 447	Cocke
2.5	<i>Cyperus</i>	<i>sp.</i>	sedge	Cyperaceae	mm 447	Cocke
2.5	<i>Plantago</i>	<i>major</i>	plantain	Plantaginaceae	mm 447	Cocke
1.8	<i>Albizia</i>	<i>julibrissin</i>	mimosa	Fabaceae	mm 447	Cocke
1.8	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 447	Cocke
1.6	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 447	Cocke
1.5	<i>Eupatorium</i>	<i>fistulosum</i>	Joe-Pye-weed	Asteraceae	mm 447	Cocke
1.5	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 447	Cocke
1.3	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 447	Cocke
1.3	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 447	Cocke
1.2	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 447	Cocke
1.0	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 447	Cocke
1.0	<i>Coronilla</i>	<i>varia</i>	crown vetch	Fabaceae	mm 447	Cocke
1.0	<i>Gaura</i>	<i>biennis</i>	biennial gaura	Onagraceae	mm 447	Cocke
1.0	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 447	Cocke
0.9	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 447	Cocke
0.8	<i>Astranthium</i>	<i>integrifolium</i>	western daisy	Asteraceae	mm 447	Cocke
0.8	<i>Lactuca</i>	<i>canadensis</i>	wild lettuce	Asteraceae	mm 447	Cocke
0.7	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 447	Cocke
0.7	<i>Aster</i>	<i>novae-angliae</i>	New England aster	Asteraceae	mm 447	Cocke
0.7	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 447	Cocke
0.7	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 447	Cocke
0.7	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 447	Cocke
0.6	<i>Phalaris</i>	<i>sp.</i>	canary grass	Poaceae	mm 447	Cocke
0.6	<i>Hypericum</i>	<i>punctatum</i>	St. John's-wort	Hypericaceae	mm 447	Cocke
0.6	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 447	Cocke
0.5	<i>Eragrostis</i>	<i>curvula</i>	weeping lovegrass	Poaceae	mm 447	Cocke
0.5	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 447	Cocke
0.4	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 447	Cocke
0.4	<i>Oenothera</i>	<i>biennis</i>	evening primrose	Onagraceae	mm 447	Cocke
0.4	<i>Prunella</i>	<i>vulgaris</i>	heal all	Lamiaceae	mm 447	Cocke
0.4	<i>Setaria</i>	<i>pumilla</i>	yellow foxtail	Poaceae	mm 447	Cocke
0.4	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 447	Cocke
0.3	<i>Bromus</i>	<i>sp.</i>	brome (dead)	Poaceae	mm 447	Cocke
0.3	<i>Convolvulus</i>	<i>arvensis</i>	field bindweed	Asteraceae	mm 447	Cocke
0.3	<i>Echinacea</i>	<i>purpurea</i>	purple coneflower	Asteraceae	mm 447	Cocke
0.3	<i>Juncus</i>	<i>tenuis</i>	slender rush	Cyperaceae	mm 447	Cocke
0.3	<i>Polygonum</i>	<i>aviculare</i>	prostrate knotweed	Polygonaceae	mm 447	Cocke
0.3	<i>Rudbeckia</i>	<i>hirta</i>	black-eyed Susan	Asteraceae	mm 447	Cocke
0.3	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 447	Cocke
0.3	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 447	Cocke
0.2	<i>Bidens</i>	<i>aristosa</i>	ticksseed	Asteraceae	mm 447	Cocke
0.2	<i>Centaurea</i>	<i>maculosa</i>	spotted knapweed	Asteraceae	mm 447	Cocke
0.1	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 447	Cocke
0.1	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 447	Cocke

APPENDIX II

**PERCENT COVER ESTIMATES
FOR EACH PLANT SPECIES
FOUND AT EACH
QUANTITATIVE SAMPLING
SITE ALONG INTERSTATES IN
TENNESSEE**

1998

Appendix II. Percent cover estimates for plant species found at each quantitative site along interstates in Tennessee, 1998.

Interstate 181/US 23 (1 site)

% cover	Genus	species	Common name	Family name	MM	County
26.3	<i>Coronilla</i>	<i>varia</i>	crown vetch	Fabaceae	mm 12	Unicoi
16.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 12	Unicoi
11.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 12	Unicoi
6.2	<i>Lolium</i>	<i>multiflorum</i>	Italian ryegrass	Poaceae	mm 12	Unicoi
5.0	<i>Lythrum</i>	<i>salicaria</i>	purple loosestrife	Lythraceae	mm 12	Unicoi
4.5	<i>Artemisia</i>	<i>vulgaris</i>	mugwort	Asteraceae	mm 12	Unicoi
3.5	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 12	Unicoi
2.5	<i>Panicum</i>	<i>anceps</i>	two-edged panicum	Poaceae	mm 12	Unicoi
2.1	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 12	Unicoi
1.8	<i>Vicia</i>	<i>dasycarpa</i>	smooth vetch	Fabaceae	mm 12	Unicoi
1.5	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 12	Unicoi
1.5	<i>Morus</i>	<i>rubra</i>	red mulberry	Moraceae	mm 12	Unicoi
1.5	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 12	Unicoi
1.5	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 12	Unicoi
1.5	<i>Rumex</i>	<i>obtusifolius</i>	bitter dock	Polygonaceae	mm 12	Unicoi
1.3	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 12	Unicoi
1.3	<i>Phalaris</i>	<i>sp.</i>	canary grass	Poaceae	mm 12	Unicoi
1.1	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 12	Unicoi
1.0	<i>Eupatorium</i>	<i>sp.</i>		Asteraceae	mm 12	Unicoi
0.8	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 12	Unicoi
0.8	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 12	Unicoi
0.8	<i>Plantago</i>	<i>lanceolata</i>	lance leaf plantain	Plantaginaceae	mm 12	Unicoi
0.7	<i>Clematis</i>	<i>virginiana</i>	virgin's bower	Ranunculaceae	mm 12	Unicoi
0.6	<i>Arctium</i>	<i>minus</i>	common burdock	Asteraceae	mm 12	Unicoi
0.5	<i>Juncus</i>	<i>tenuis</i>	slender rush	Juncaceae	mm 12	Unicoi
0.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 12	Unicoi
0.5	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 12	Unicoi
0.5	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 12	Unicoi
0.5	<i>Fragaria</i>	<i>virginiana</i>	wild strawberry	Rosaceae	mm 12	Unicoi
0.5	<i>Convolvulus</i>	<i>arvensis</i>	field bindweed	Convolvulaceae	mm 12	Unicoi
0.4	<i>Brassica</i>	<i>rapa</i>	birdsrape mustard	Brassicaceae	mm 12	Unicoi
0.4	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm 12	Unicoi
0.4	<i>Veronica</i>	<i>sp.</i>	blue speedwell	Scrophulariaceae	mm 12	Unicoi

Appendix II. (Continued).

Interstate 155 (1 site)

% cover	Genus	species	Common name	Family name	MM	County
22.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 4.9	Dyer
12.0	<i>Vernonia</i>	<i>altissima</i>	ironweed	Asteraceae	mm 4.9	Dyer
10.0	<i>Lolium</i>	<i>multiflorum</i>	Italian ryegrass	Poaceae	mm 4.9	Dyer
10.0	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 4.9	Dyer
6.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 4.9	Dyer
6.5	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 4.9	Dyer
5.3	<i>Triticum</i>	<i>aestivum</i>	wheat	Poaceae	mm 4.9	Dyer
4.0	<i>Saururus</i>	<i>cernuus</i>	lizard's tail	Saururaceae	mm 4.9	Dyer
2.5	<i>Solidago</i>	sp.	goldenrod	Asteraceae	mm 4.9	Dyer
2.5	<i>Fraxinus</i>	sp.	ash	Oleaceae	mm 4.9	Dyer
2.2	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 4.9	Dyer
2.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 4.9	Dyer
2.0	<i>Liquidambar</i>	<i>styraciflua</i>	sweet gum	Hamamelidaceae	mm 4.9	Dyer
2.0	<i>Quercus</i>	<i>rubra</i>	red oak	Fagaceae	mm 4.9	Dyer
2.0	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 4.9	Dyer
1.5	<i>Hibiscus</i>	sp.	hibiscus	Asteraceae	mm 4.9	Dyer
1.5	<i>Populus</i>	<i>deltoides</i>	eastern cottonwood	Salicaceae	mm 4.9	Dyer
1.5	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 4.9	Dyer
1.2	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 4.9	Dyer
1.0	<i>Typha</i>	<i>latifolia</i>	common cat-tail	Typhaceae	mm 4.9	Dyer
1.0	<i>Ampelopsis</i>	<i>arborea</i>	peppervine	Vitaceae	mm 4.9	Dyer
1.0	<i>Lathyrus</i>	<i>hirsutus</i>	caley pea	Fabaceae	mm 4.9	Dyer
0.7	<i>Verbascum</i>	<i>blattaria</i>	moth mullein	Scrophulariaceae	mm 4.9	Dyer
0.6	<i>Trifolium</i>	<i>repens</i>	white clover	Fabaceae	mm 4.9	Dyer
0.5	<i>Brunnichia</i>	<i>ovata</i>	red vine	Polygonaceae	mm 4.9	Dyer
0.5	<i>Campsis</i>	<i>radicans</i>	Trumpet creeper	Bigoniaceae	mm 4.9	Dyer
0.5	<i>Euphorbia</i>	<i>maculata</i>	spotted spurge	Euphorbiaceae	mm 4.9	Dyer
0.5	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 4.9	Dyer
0.5	<i>Diodia</i>	<i>virginiana</i>	Virginia buttonweed	Rubiaceae	mm 4.9	Dyer
0.5	<i>Phyla</i>	<i>lanceolata</i>	fog fruit	Verbenaceae	mm 4.9	Dyer
0.4	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 4.9	Dyer
0.4	<i>Kummerowia</i>	<i>stipulacea</i>	Korean clover	Fabaceae	mm 4.9	Dyer
0.4	<i>Setaria</i>	(<i>glauca</i>) <i>pumila</i>	yellow foxtail	Poaceae	mm 4.9	Dyer
0.3	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 4.9	Dyer
0.3	<i>Lepidium</i>	<i>virginiana</i>	Virginia pepperweed	Brassicaceae	mm 4.9	Dyer
0.3	<i>Aster</i>	sp.	aster	Asteraceae	mm 4.9	Dyer
0.2	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 4.9	Dyer
0.2	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 4.9	Dyer
0.2	<i>Rubus</i>	sp.	blackberry	Rosaceae	mm 4.9	Dyer
0.2	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 4.9	Dyer
0.2	<i>Centaurea</i>	<i>cyanus</i>	bachelor's button	Asteraceae	mm 4.9	Dyer

Appendix II. (Continued).

Interstate 81 (1 site)

% cover	Genus	species	Common name	Family name	MM	County
10.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 46.5	Greene
9.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 46.5	Greene
9.0			unknown grass	Poaceae	mm 46.5	Greene
7.7	<i>Robinia</i>	<i>pseudo-acacia</i>	black locust	Fabaceae	mm 46.5	Greene
7.5	<i>Centaurea</i>	<i>maculosa</i>	spotted knapweed	Asteraceae	mm 46.5	Greene
6.7	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 46.5	Greene
5.5	<i>Potentilla</i>	<i>canadensis</i>	dwarf cinquefoil	Rosaceae	mm 46.5	Greene
4.8	<i>Rhamnus</i>	<i>caroliniana</i>	Carolina buckthorn	Rhamnaceae	mm 46.5	Greene
4.2	<i>Panicum</i>	<i>sp.</i>	panic grass 2	Poaceae	mm 46.5	Greene
4.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 46.5	Greene
2.8	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 46.5	Greene
2.5			moss		mm 46.5	Greene
2.0	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 46.5	Greene
2.0	<i>Achillea</i>	<i>millefolium</i>	yarrow	Asteraceae	mm 46.5	Greene
2.0	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 46.5	Greene
2.0	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 46.5	Greene
1.8	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 46.5	Greene
1.8	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 46.5	Greene
1.8	<i>Melilotus</i>	<i>officinalis</i>	yellow sweet clover	Fabaceae	mm 46.5	Greene
1.7	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 46.5	Greene
1.6	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 46.5	Greene
1.3			unknown grass	Poaceae	mm 46.5	Greene
1.2	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 46.5	Greene
1.2	<i>Senecio</i>	<i>sp.</i>	ragwort	Asteraceae	mm 46.5	Greene
1.1	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 46.5	Greene
1.0	<i>Cyperus</i>	<i>sp.</i>	sedge	Cyperaceae	mm 46.5	Greene
1.0	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 46.5	Greene
0.9	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm 46.5	Greene
0.7	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm 46.5	Greene
0.6	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 46.5	Greene
0.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 46.5	Greene
0.5	<i>Lysimachia</i>	<i>nummularia</i>	moneywort	Primulaceae	mm 46.5	Greene
0.5	<i>Digitaria</i>	<i>sanguinalis</i>	tall crabgrass	Poaceae	mm 46.5	Greene
0.4	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 46.5	Greene
0.4	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 46.5	Greene
0.3	<i>Ranunculus</i>	<i>sp.</i>	buttercup	Ranunculaceae	mm 46.5	Greene
0.3	<i>Vernonia</i>	<i>altissima</i>	ironweed	Asteraceae	mm 46.5	Greene
0.3	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Lamiaceae	mm 46.5	Greene
0.2	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 46.5	Greene
0.2	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 46.5	Greene
0.2	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 46.5	Greene
0.1	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 46.5	Greene
0.1	<i>Eragrostis</i>	<i>curvula</i>	weeping lovegrass	Poaceae	mm 46.5	Greene
0.2	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 46.5	Greene
0.2	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 46.5	Greene

Appendix II. (Continued).

Interstate 75 (1 of 2 sites)

% cover	Genus	species	Common name	Family name	MM	County
13.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 53.5	McMinn
8.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 53.5	McMinn
7.8	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 53.5	McMinn
6.8	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 53.5	McMinn
6.0	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 53.5	McMinn
5.9	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 53.5	McMinn
5.2	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 53.5	McMinn
5.1	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 53.5	McMinn
5.0	<i>Agrimonia</i>	<i>parviflora</i>	agrimony	Rosaceae	mm 53.5	McMinn
4.8	<i>Sambucus</i>	<i>canadensis</i>	elderberry	Caprifoliaceae	mm 53.5	McMinn
3.5	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 53.5	McMinn
3.5	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 53.5	McMinn
2.8	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 53.5	McMinn
2.2	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 53.5	McMinn
2.0	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 53.5	McMinn
2.0	<i>Rhamnus</i>	<i>caroliniana</i>	Carolina buckthorn	Asteraceae	mm 53.5	McMinn
1.8	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 53.5	McMinn
1.5	<i>Cerastium</i>	<i>vulgare</i>	mouse ear chickweed	Caryophyllaceae	mm 53.5	McMinn
1.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 53.5	McMinn
1.3	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 53.5	McMinn
1.2	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 53.5	McMinn
1.1	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 53.5	McMinn
1.1	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 53.5	McMinn
1.0	<i>Robinia</i>	<i>pseudo-acacia</i>	black locust	Fabaceae	mm 53.5	McMinn
0.8	<i>Galium</i>	<i>aparine</i>	bedstraw	Rubiaceae	mm 53.5	McMinn
0.8	<i>Oenothera</i>	<i>biennis</i>	common evening primrose	Onagraceae	mm 53.5	McMinn
0.8	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 53.5	McMinn
0.8	<i>Valerianella</i>	<i>radiata</i>	corn salad	Valerianaceae	mm 53.5	McMinn
0.7	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 53.5	McMinn
0.7	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 53.5	McMinn
0.6	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 53.5	McMinn
0.6	<i>Passiflora</i>	<i>incarnata</i>	passionflower	Passifloraceae	mm 53.5	McMinn
0.6	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 53.5	McMinn
0.5	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm 53.5	McMinn
0.5	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 53.5	McMinn
0.5	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 53.5	McMinn
0.4	<i>Anthemis</i>	<i>cotula</i>	mayweed chamomile	Asteraceae	mm 53.5	McMinn
0.4	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 53.5	McMinn
0.3	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 53.5	McMinn
0.3	<i>Lolium</i>	<i>multiflorum</i>	Italian ryegrass	Poaceae	mm 53.5	McMinn
0.2	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 53.5	McMinn
0.2	<i>Stellaria</i>	<i>media</i>	common chickweed	Caryophyllaceae	mm 53.5	McMinn
0.1	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 53.5	McMinn
0.1	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 53.5	McMinn
0.1	<i>Polygonum</i>	<i>aviculare</i>	prostrate knotweed	Polygonaceae	mm 53.5	McMinn
0.1	<i>Vicia</i>	<i>dasyarpa</i>	smooth vetch	Fabaceae	mm 53.5	McMinn
0.1	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Lamiaceae	mm 53.5	McMinn
0.0	<i>Cuscuta</i>	<i>sp.</i>	dodder	Convolvulaceae	mm 53.5	McMinn

Appendix II. (Continued).

Interstate 75 (2 of 2 sites)

% cover	Genus	species	Common name	Family name	MM	County
46.2	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Asteraceae	mm 154	Campbell
9.6	<i>Cirsium</i>	<i>arvense</i>	Canada thistle	Asteraceae	mm 154	Campbell
8.3	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 154	Campbell
7.5	<i>Cercis</i>	<i>canadensis</i>	redbud	Fabaceae	mm 154	Campbell
6.2	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 154	Campbell
6.0	<i>Fraxinus</i>	<i>pennsylvanica</i>	green ash	Oleaceae	mm 154	Campbell
4.6	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 154	Campbell
4.6	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 154	Campbell
4.3	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 154	Campbell
4.0	<i>Ulmus</i>	<i>rubra</i>	slippery elm	Ulmaceae	mm 154	Campbell
2.0	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 154	Campbell
2.0	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 154	Campbell
2.0	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 154	Campbell
2.0	<i>Pinus</i>	<i>echinata</i>	shortleaf pine	Pinaceae	mm 154	Campbell
1.5	<i>Polygonum</i>	<i>aviculare</i>	prostrate knotweed	Polygonaceae	mm 154	Campbell
1.5	<i>Robinia</i>	<i>pseudo-acacia</i>	black locust	Fabaceae	mm 154	Campbell
1.1	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 154	Campbell
1.1	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 154	Campbell
1.0	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 154	Campbell
1.0	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 154	Campbell
1.0	<i>Vernonia</i>	<i>altissima</i>	ironweed	Asteraceae	mm 154	Campbell
1.0	<i>Melilotus</i>	<i>officinalis</i>	yellow sweet clover	Fabaceae	mm 154	Campbell
0.8	<i>Coronilla</i>	<i>varia</i>	crown vetch	Fabaceae	mm 154	Campbell
0.8	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 154	Campbell
0.5	<i>Lactuca</i>	<i>serriola</i>	prickly lettuce	Asteraceae	mm 154	Campbell
0.5	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 154	Campbell
0.5	<i>Sisyrinchium</i>	<i>sp.</i>	blue-eyed grass	Iridaceae	mm 154	Campbell
0.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 154	Campbell
0.5	<i>Asclepias</i>	<i>syriaca</i>	common milkweed	Asclepiadaceae	mm 154	Campbell
0.5	<i>Hypericum</i>	<i>perforatum</i>	St. John's-wort	Hypericaceae	mm 154	Campbell
0.3	<i>Panicum</i>	<i>sp.</i>	large panic grass	Poaceae	mm 154	Campbell

Appendix II. (Continued).

Interstate 65 (1 of 3 sites)

% cover	Genus	species	Common name	Family name	MM	County
24.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 3.5	Giles
22.4	<i>Valerianella</i>	<i>radiata</i>	corn salad	Valerianaceae	mm 3.5	Giles
8.1	<i>Ligustrum</i>	<i>sinense</i>	Chinese privet	Oleaceae	mm 3.5	Giles
7.0	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm 3.5	Giles
5.6	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 3.5	Giles
5.5	<i>Lamium</i>	<i>purpureum</i>	henbit	Lamiaceae	mm 3.5	Giles
5.0	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 3.5	Giles
4.8	<i>Symporicarpos</i>	<i>orbiculatus</i>	coral berry	Caprifoliaceae	mm 3.5	Giles
4.7	<i>Vicia</i>	<i>sativa ssp. nigra</i>	narrow-leaved vetch	Fabaceae	mm 3.5	Giles
3.1	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 3.5	Giles
2.7	<i>Plantago</i>	<i>lanceolata</i>	lance leaf plantain	Plantaginaceae	mm 3.5	Giles
2.6	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 3.5	Giles
2.5	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm 3.5	Giles
2.3	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 3.5	Giles
2.2	<i>Rudbeckia</i>	<i>hirta</i>	black-eyed Susan	Asteraceae	mm 3.5	Giles
1.9	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 3.5	Giles
1.8	<i>Galium</i>	<i>aparine</i>	bedstraw	Rubiaceae	mm 3.5	Giles
1.7	<i>Stellaria</i>	<i>media</i>	giant chickweed	Caryophyllaceae	mm 3.5	Giles
1.6	<i>Geranium</i>	<i>dissectum</i>	dissected geranium	Geraniaceae	mm 3.5	Giles
1.5	<i>Veronica</i>	<i>arvensis</i>	corn speedwell	Scrophulariaceae	mm 3.5	Giles
1.5	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 3.5	Giles
1.1	<i>Cerastium</i>	<i>vulgatum</i>	mouse-ear chickweed	Caryophyllaceae	mm 3.5	Giles
1.1	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 3.5	Giles
1.1	<i>Lithospermum</i>	<i>arvense</i>	corn gromwell	Boraginaceae	mm 3.5	Giles
1.0	<i>Cardamine</i>	<i>hirsuta</i>	hairy bittercress	Brassicaceae	mm 3.5	Giles
0.9	<i>Lactuca</i>	<i>sp.</i>	thin leaved lettuce	Asteraceae	mm 3.5	Giles
0.9	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 3.5	Giles
0.8	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 3.5	Giles
0.8	<i>Barbarea</i>	<i>vulgaris</i>	yellow rocket	Brassicaceae	mm 3.5	Giles
0.7	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 3.5	Giles
0.7	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 3.5	Giles
0.5	<i>Cercis</i>	<i>canadensis</i>	redbud	Fabaceae	mm 3.5	Giles
0.5	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm 3.5	Giles
0.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 3.5	Giles
0.5	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 3.5	Giles
0.4	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 3.5	Giles
0.4	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 3.5	Giles
0.2	<i>Solidago</i>	<i>sp.</i>	goldenrod (seedling)	Asteraceae	mm 3.5	Giles

Appendix II. (Continued).

Interstate 65 (2 of 3 sites)

% cover	Genus	species	Common name	Family name	MM	County
31.7	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 58.3	Williamson
9.9	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 58.3	Williamson
9.3	<i>Dipsacus</i>	<i>fullonum</i>	teasel	Dipsacaceae	mm 58.3	Williamson
7.8	<i>Symporicarpos</i>	<i>orbiculatus</i>	coral berry	Caprifoliaceae	mm 58.3	Williamson
3.6	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 58.3	Williamson
3.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 58.3	Williamson
3.0	<i>Setaria</i>	<i>sp.</i>	dead foxtail	Poaceae	mm 58.3	Williamson
3.0	<i>Fraxinus</i>	<i>sp.</i>	ash	Oleaceae	mm 58.3	Williamson
2.9	<i>Veronica</i>	<i>arvensis</i>	corn speedwell	Scrophulariaceae	mm 58.3	Williamson
2.4	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 58.3	Williamson
2.0	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 58.3	Williamson
2.0	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 58.3	Williamson
2.0			unknown grass	Poaceae	mm 58.3	Williamson
2.0	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 58.3	Williamson
1.5	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 58.3	Williamson
1.5	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 58.3	Williamson
1.4	<i>Galium</i>	<i>aparine</i>	bedstraw	Rubiaceae	mm 58.3	Williamson
1.0	<i>Oenothera</i>	<i>biennis</i>	common evening primrose	Onagraceae	mm 58.3	Williamson
1.0			sedge	Cyperaceae	mm 58.3	Williamson
0.5	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 58.3	Williamson
0.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 58.3	Williamson
0.4	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 58.3	Williamson
0.3	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 58.3	Williamson
0.3	<i>Melilotus</i>	<i>officinalis</i>	yellow sweet clover	Fabaceae	mm 58.3	Williamson
0.2	<i>Lactuca</i>	<i>serriola</i>	prickly lettuce	Asteraceae	mm 58.3	Williamson
0.2	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 58.3	Williamson
0.1	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 58.3	Williamson
0.1	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 58.3	Williamson
0.0	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 58.3	Williamson

Appendix II. (Continued).

Interstate 65 (3 of 3 sites)

% cover	Genus	species	Common name	Family name	MM	County
24.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 111.8	Robertson
7.8	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 111.8	Robertson
5.5	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 111.8	Robertson
4.5	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 111.8	Robertson
3.9	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 111.8	Robertson
3.8	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 111.8	Robertson
3.5	<i>Pinus</i>	<i>sp.</i>	pine	Pinaceae	mm 111.8	Robertson
3.0	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 111.8	Robertson
2.1	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm 111.8	Robertson
2.0	<i>Podophyllum</i>	<i>peltatum</i>	mayapple	Berberidaceae	mm 111.8	Robertson
2.0	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 111.8	Robertson
2.0	<i>Erigeron</i>	<i>philadelphicus</i>	philadelphia fleabane	Asteraceae	mm 111.8	Robertson
2.0	<i>Poa</i>	<i>annua</i>	annual bluegrass	Poaceae	mm 111.8	Robertson
1.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 111.8	Robertson
1.3	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 111.8	Robertson
1.2	<i>Veronica</i>	<i>arvensis</i>	corn speedwell	Scrophulariaceae	mm 111.8	Robertson
1.1	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 111.8	Robertson
1.1	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 111.8	Robertson
1.0	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 111.8	Robertson
1.0	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm 111.8	Robertson
0.9	<i>Cardamine</i>	<i>hirsuta</i>	hairy bittercress	Brassicaceae	mm 111.8	Robertson
0.8	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 111.8	Robertson
0.8	<i>Cerastium</i>	<i>vulgatum</i>	mouse-ear chickweed	Caryophyllaceae	mm 111.8	Robertson
0.7	<i>Galium</i>	<i>aparine</i>	bedstraw	Rubiaceae	mm 111.8	Robertson
0.7	<i>Lamium</i>	<i>purpureum</i>	red deadnettle	Lamiaceae	mm 111.8	Robertson
0.5	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 111.8	Robertson
0.5	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 111.8	Robertson
0.5	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 111.8	Robertson
0.5	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 111.8	Robertson
0.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 111.8	Robertson
0.4	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 111.8	Robertson
0.3	<i>Geum</i>	<i>canadense</i>	white avens	Rosaceae	mm 111.8	Robertson
0.3	<i>Fragaria</i>	<i>virginiana</i>	wild strawberry	Rosaceae	mm 111.8	Robertson
0.3	<i>Draba</i>	<i>verna</i>	whitlow grass	Brassicaceae	mm 111.8	Robertson
0.2	<i>Cyperus</i>	<i>sp.</i>	sedge	Cyperaceae	mm 111.8	Robertson
0.1	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 111.8	Robertson
0.1	<i>Erechtites</i>	<i>hieracifolia</i>	fireweed	Asteraceae	mm 111.8	Robertson

Appendix II. (Continued).

Interstate 24 (1 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
23.8	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 16	Montgomery
13.7	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 16	Montgomery
13.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 16	Montgomery
11.8	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 16	Montgomery
9.5	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 16	Montgomery
9.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 16	Montgomery
6.9	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 16	Montgomery
5.3	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 16	Montgomery
5.3	<i>Symporicarpos</i>	<i>orbiculatus</i>	coral berry	Caprifoliaceae	mm 16	Montgomery
3.1	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 16	Montgomery
2.5	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 16	Montgomery
2.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 16	Montgomery
2.0	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm 16	Montgomery
1.8	<i>Medicago</i>	<i>sativa</i>	black medic	Fabaceae	mm 16	Montgomery
1.5	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 16	Montgomery
1.5	<i>Veronica</i>	<i>arvensis</i>	corn speedwell	Scrophulariaceae	mm 16	Montgomery
1.2	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 16	Montgomery
1.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 16	Montgomery
0.8			unknown aster	Asteraceae	mm 16	Montgomery
0.6	<i>Ulmus</i>	<i>rubra</i>	slippery elm	Ulmaceae	mm 16	Montgomery
0.5	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 16	Montgomery
0.5	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 16	Montgomery
0.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardeaceae	mm 16	Montgomery
0.5	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 16	Montgomery
0.5			unknown grass	Poaceae	mm 16	Montgomery
0.3	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 16	Montgomery
0.3	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 16	Montgomery
0.2	<i>Cerastium</i>	<i>vulgatum</i>	mouse-ear chickweed	Caryophyllaceae	mm 16	Montgomery
0.2	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 16	Montgomery
0.2	<i>Panicum</i>	<i>capillare</i>	witchgrass	Poaceae	mm 16	Montgomery
0.2	<i>Senecio</i>	<i>sp.</i>	ragwort (native)	Asteraceae	mm 16	Montgomery
0.1	<i>Poa</i>	<i>annua</i>	annual bluegrass	Poaceae	mm 16	Montgomery
0.1	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 16	Montgomery
0.1	<i>Gnaphalium</i>	<i>purpureum</i>	purple cudweed	Asteraceae	mm 16	Montgomery
0.1	<i>Potentilla</i>	<i>simplex</i>	oldfield cinquefoil	Rosaceae	mm 16	Montgomery
0.1	<i>Vicia</i>	<i>sativa ssp. nigra</i>	narrow-leaved vetch	Fabaceae	mm 16	Montgomery

Appendix II. (Continued).

Interstate 24 (2 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
23.9	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 71	Rutherford
19.6	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 71	Rutherford
10.3	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 71	Rutherford
7.3	<i>Arenaria</i>	<i>patula</i>	glade sandwort	Caryophyllaceae	mm 71	Rutherford
6.5	<i>Potentilla</i>	<i>recta</i>	sulfur cinquefoil	Rosaceae	mm 71	Rutherford
6.0	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 71	Rutherford
5.9	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 71	Rutherford
5.3	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 71	Rutherford
4.5	<i>Sedum</i>	<i>pulchellum</i>	lime stonecrop	Crassulaceae	mm 71	Rutherford
4.5	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 71	Rutherford
4.0	<i>Centaurea</i>	<i>maculosa</i>	spotted knapweed	Asteraceae	mm 71	Rutherford
3.9	<i>Lactuca</i>	sp.		Asteraceae	mm 71	Rutherford
3.5	<i>Solidago</i>	sp.	goldenrod	Asteraceae	mm 71	Rutherford
3.0	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm 71	Rutherford
2.8	<i>Plantago</i>	<i>aristata</i>	bracted plantain	Plantaginaceae	mm 71	Rutherford
2.5	<i>Cerastium</i>	<i>vulgatum</i>	mouse-ear chickweed	Caryophyllaceae	mm 71	Rutherford
1.8	<i>Opuntia</i>	<i>humifusa</i>	prickly pear cactus	Cactaceae	mm 71	Rutherford
1.7	<i>Chaeropyllum</i>	<i>tainturieri</i>	chervil	Apiaceae	mm 71	Rutherford
1.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 71	Rutherford
1.4	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 71	Rutherford
1.3	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 71	Rutherford
1.3	<i>Tragopogon</i>	<i>dubius</i>	goat's beard	Asteraceae	mm 71	Rutherford
1.3	<i>Senecio</i>	sp.	ragwort	Asteraceae	mm 71	Rutherford
1.2	<i>Geranium</i>	<i>carolinense</i>	Carolina geranium	Geraniaceae	mm 71	Rutherford
1.2	<i>Rubus</i>	sp.	blackberry	Rubiaceae	mm 71	Rutherford
1.1	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 71	Rutherford
0.8	<i>Lithospermum</i>	<i>arvense</i>	corn gromwell	Boraginaceae	mm 71	Rutherford
0.8	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 71	Rutherford
0.7	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 71	Rutherford
0.7	<i>Vicia</i>	<i>sativa ssp. nigra</i>	narrow-leaved vetch	Fabaceae	mm 71	Rutherford
0.6	<i>Galium</i>	<i>aparine</i>	bedstraw	Rubiaceae	mm 71	Rutherford
0.5	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 71	Rutherford
0.5	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 71	Rutherford
0.5	<i>Panicum</i>	<i>capillare</i>	witchgrass	Asteraceae	mm 71	Rutherford
0.4	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 71	Rutherford
0.3	<i>Plantago</i>	<i>virginicus</i>	paleseed plantain	Plantaginaceae	mm 71	Rutherford
0.3	<i>Hordeum</i>	<i>pusillum</i>	little barley	Poaceae	mm 71	Rutherford
0.2	<i>Lepidium</i>	<i>campestre</i>	field pepperweed	Brassicaceae	mm 71	Rutherford
0.2	<i>Geranium</i>	<i>dissectum</i>	dissected geranium	Geraniaceae	mm 71	Rutherford
0.2	<i>Lactuca</i>	<i>serriola</i>	prickly lettuce	Asteraceae	mm 71	Rutherford
0.2	<i>Silene</i>	sp.	fern	Caryophyllaceae	mm 71	Rutherford
0.2			corn salad	Valerianaceae	mm 71	Rutherford
0.1	<i>Valerianella</i>	<i>radiata</i>				

Appendix II. (Continued).

Interstate 24 (3 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
23.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 117	Coffee
15.9	<i>Pinus</i>	<i>teada</i>	loblolly pine	Pinaceae	mm 117	Coffee
9.4	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 117	Coffee
6.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 117	Coffee
6.3	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 117	Coffee
5.0	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 117	Coffee
5.0	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 117	Coffee
4.5	<i>Toxicodendron</i>	<i>toxicarium</i>	poison oak	Anacardiaceae	mm 117	Coffee
4.3	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 117	Coffee
4.0	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 117	Coffee
4.0	<i>Rosa</i>	<i>caroliniana</i>	Carolina rose	Rosaceae	mm 117	Coffee
3.6	<i>Plantago</i>	<i>rugelii</i>	broadleaf plantain	Plantaginaceae	mm 117	Coffee
3.3	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 117	Coffee
3.3	<i>Liquidambar</i>	<i>styaciflua</i>	sweet gum	Hamamelidaceae	mm 117	Coffee
3.3	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 117	Coffee
3.0	<i>Potentilla</i>	<i>simplex</i>	oldfield cinquefoil	Rosaceae	mm 117	Coffee
2.5	<i>Euonymus</i>	<i>americanus</i>	hearts-a-bustin'	Celastraceae	mm 117	Coffee
2.0	<i>Salix</i>	<i>nigra</i>	black willow	Salicaceae	mm 117	Coffee
1.7	<i>Panicum</i>	<i>sp.</i>	panic grass 2	Poaceae	mm 117	Coffee
1.5	<i>Achillea</i>	<i>millefolium</i>	yarrow	Asteraceae	mm 117	Coffee
1.5	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 117	Coffee
1.2	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 117	Coffee
1.0	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 117	Coffee
1.0			gravel scroph	Scrophulariaceae	mm 117	Coffee
1.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 117	Coffee
1.0	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 117	Coffee
1.0	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 117	Coffee
0.8	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 117	Coffee
0.8	<i>Eupatorium</i>	<i>rotundifolium</i>	round leaved thoroughwort	Asteraceae	mm 117	Coffee
0.8	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 117	Coffee
0.8	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 117	Coffee
0.5	<i>Lactuca</i>	<i>sp.</i>		Asteraceae	mm 117	Coffee
0.5			fern		mm 117	Coffee
0.5	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 117	Coffee
0.5	<i>Eupatorium</i>	<i>coelostinum</i>	mistflower	Asteraceae	mm 117	Coffee
0.5	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Lamiaceae	mm 117	Coffee
0.5	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 117	Coffee
0.5	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm 117	Coffee
0.5	<i>Mitchella</i>	<i>repens</i>	partridge berry	Rubiaceae	mm 117	Coffee
0.5	<i>Rhamnus</i>	<i>caroliniana</i>	Carolina buckthorn	Rhamnaceae	mm 117	Coffee
0.5	<i>Trifolium</i>	<i>repens</i>	white clover	Fabaceae	mm 117	Coffee
0.5	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bigoniaceae	mm 117	Coffee
0.5	<i>Geranium</i>	<i>carolinense</i>	Carolina geranium	Geraniaceae	mm 117	Coffee
0.5	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 117	Coffee
0.4	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 117	Coffee
0.3	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm 117	Coffee
0.3	<i>Juncus</i>	<i>tenuis</i>	slender rush	Juncaceae	mm 117	Coffee
0.3	<i>Eupatorium</i>	<i>perfoliatum</i>	boneset	Asteraceae	mm 117	Coffee
0.3	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 117	Coffee
0.3	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 117	Coffee
0.3	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 117	Coffee
0.2	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 117	Coffee
0.2	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 117	Coffee
0.2	<i>Ranunculus</i>	<i>sp.</i>	buttercup	Ranunculaceae	mm 117	Coffee
0.2	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 117	Coffee
0.2	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 117	Coffee
0.1	<i>Gnaphalium</i>	<i>purpureum</i>	purple cudweed	Asteraceae	mm 117	Coffee
0.1	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 117	Coffee

Appendix II. (Continued).

Interstate 24 (4 of 4 sites)

% cover	Genus	species	Common name	Family name	MM	County
23.9	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 164	Marion
11.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 164	Marion
10.8	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 164	Marion
10.0	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 164	Marion
6.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 164	Marion
6.5	<i>Albizia</i>	<i>julibrissin</i>	mimosa	Fabaceae	mm 164	Marion
6.5	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 164	Marion
5.0	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 164	Marion
4.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 164	Marion
3.5	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 164	Marion
3.0	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 164	Marion
2.8	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 164	Marion
2.5	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleraceae	mm 164	Marion
2.5	<i>Passiflora</i>	<i>incarnata</i>	maypops	Passifloraceae	mm 164	Marion
2.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 164	Marion
2.0	<i>Verbesina</i>	<i>sp.</i>	wingstem	Asteraceae	mm 164	Marion
2.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 164	Marion
2.0	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bigoniaceae	mm 164	Marion
2.0	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 164	Marion
2.0	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Lamiaceae	mm 164	Marion
2.0	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 164	Marion
1.7	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 164	Marion
1.5	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 164	Marion
1.0	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 164	Marion
1.0	<i>Cyperus</i>	<i>esculentus</i>	yellow nutsedge	Cyperaceae	mm 164	Marion
0.8	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 164	Marion
0.7	<i>Juncus</i>	<i>tenuis</i>	slender rush	Juncaceae	mm 164	Marion
0.7	<i>Kummerowia</i>	<i>stipulacea</i>	Korean lespedeza	Fabaceae	mm 164	Marion
0.6	<i>Microstegium</i>	<i>vimineum</i>	Japanese grass	Poaceae	mm 164	Marion
0.5	<i>Senna</i>	<i>marylandica</i>	Maryland senna	Fabaceae	mm 164	Marion
0.5	<i>Pinus</i>	<i>virginiana</i>	Virginia pine	Pinaceae	mm 164	Marion
0.5	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 164	Marion
0.5	<i>Asclepias</i>	<i>syriaca</i>	common milkweed	Asclepiadaceae	mm 164	Marion
0.5	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm 164	Marion
0.4	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 164	Marion
0.3	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 164	Marion
0.3	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 164	Marion
0.2	<i>Senecio</i>	<i>sp.</i>	native ragwort	Asteraceae	mm 164	Marion
0.2	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 164	Marion
0.2	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 164	Marion
0.2	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 164	Marion
0.2	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 164	Marion
0.2	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 164	Marion
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 164	Marion
0.2	<i>Verbena</i>	<i>simplex</i>	hoary vervain	Verbenaceae	mm 164	Marion
0.2	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 164	Marion
0.1	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 164	Marion
0.1	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 164	Marion
0.1	<i>Lolium</i>	<i>multiflorum</i>	Italian ryegrass	Poaceae	mm 164	Marion
0.1	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 164	Marion
0.1	<i>Anthemis</i>	<i>cotula</i>	mayweed chamomile	Asteraceae	mm 164	Marion

Appendix II. (Continued).

Interstate 40 (1 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
14.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 3	Shelby
13.0	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 3	Shelby
12.0	<i>Prunus</i>	<i>sp.</i>	cherry (red stems)	Rosaceae	mm 3	Shelby
11.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 3	Shelby
8.0	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bigoniaceae	mm 3	Shelby
6.3	<i>Erianthus</i>	<i>alopecuroides</i>	beardgrass	Poaceae	mm 3	Shelby
5.0	<i>Robinia</i>	<i>pseudo-acacia</i>	black locust	Fabaceae	mm 3	Shelby
4.5	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 3	Shelby
4.0	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 3	Shelby
3.9	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 3	Shelby
2.6	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 3	Shelby
2.6	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 3	Shelby
2.5	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 3	Shelby
2.5	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 3	Shelby
2.5	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 3	Shelby
2.0	<i>Ampelopsis</i>	<i>arborea</i>	peppervine	Vitaceae	mm 3	Shelby
2.0	<i>Diospyros</i>	<i>virginiana</i>	persimmon	Ebenaceae	mm 3	Shelby
2.0	<i>Polygonum</i>	<i>aviculare</i>	prostrate knotweed	Polygonaceae	mm 3	Shelby
1.6	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 3	Shelby
1.5	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm 3	Shelby
1.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 3	Shelby
1.0	<i>Acer</i>	<i>saccharinum</i>	silver maple	Aceraceae	mm 3	Shelby
1.0	<i>Chloris</i>	<i>virgata</i>	feather finger grass	Poaceae	mm 3	Shelby
1.0	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 3	Shelby
1.0	<i>Oenothera</i>	<i>biennis</i>	common evening primrose	Onagraceae	mm 3	Shelby
0.8	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 3	Shelby
0.6	<i>Ulmus</i>	<i>sp.</i>	elm	Ulmaceae	mm 3	Shelby
0.5	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 3	Shelby
0.5	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 3	Shelby
0.5	<i>Passiflora</i>	<i>incarnata</i>	maypops	Passifloraceae	mm 3	Shelby
0.5	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 3	Shelby
0.4	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 3	Shelby
0.3	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 3	Shelby
0.2	<i>Torilis</i>	<i>arvensis</i>	hedge parsley	Apiaceae	mm 3	Shelby
0.1	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 3	Shelby
0.1	<i>Cynanchum</i>	<i>laeve</i>	honeyvine milkweed	Asclepiadaceae	mm 3	Shelby
0.1	<i>Portulaca</i>	<i>oleracea</i>	common purslane	Portulacaceae	mm 3	Shelby

Appendix II. (Continued).

Interstate 40 (2 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
37.0	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 51	Haywood
9.6	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 51	Haywood
9.3	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 51	Haywood
6.5	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 51	Haywood
5.0	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm 51	Haywood
4.0	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm 51	Haywood
3.5	<i>Diospyros</i>	<i>virginiana</i>	persimmon	Ebenaceae	mm 51	Haywood
3.4	<i>Setaria</i>	(<i>glauca</i>) <i>pumila</i>	yellow foxtail	Poaceae	mm 51	Haywood
2.8	<i>Rubus</i>	sp.	blackberry	Rosaceae	mm 51	Haywood
2.7	<i>Solidago</i>	sp.	goldenrod	Asteraceae	mm 51	Haywood
2.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 51	Haywood
2.5	<i>Eragrostis</i>	<i>curvula</i>	weeping lovegrass	Poaceae	mm 51	Haywood
2.0	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 51	Haywood
1.6	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 51	Haywood
1.5	<i>Campsis</i>	<i>radicans</i>	trumpet creeper	Bigoniaceae	mm 51	Haywood
1.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 51	Haywood
1.5	<i>Quercus</i>	<i>rubra</i>	red oak	Fagaceae	mm 51	Haywood
1.0	<i>Liquidambar</i>	<i>stylocarpa</i>	sweet gum	Hamamelidaceae	mm 51	Haywood
1.0	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 51	Haywood
1.0	<i>Erianthus</i>	<i>alopecuroides</i>	beardgrass	Poaceae	mm 51	Haywood
1.0	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 51	Haywood
1.0	<i>Digitaria</i>	<i>sanguinalis</i>	large crabgrass	Poaceae	mm 51	Haywood
0.8	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 51	Haywood
0.8	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 51	Haywood
0.5	<i>Diodia</i>	<i>virginiana</i>	Virginia buttonweed	Rubiaceae	mm 51	Haywood
0.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 51	Haywood
0.5	<i>Panicum</i>	sp.	panic grass	Poaceae	mm 51	Haywood
0.5	<i>Plantago</i>	<i>major</i>	plantain	Plantaginaceae	mm 51	Haywood
0.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 51	Haywood
0.4	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 51	Haywood
0.3			unidentified grass	Poaceae	mm 51	Haywood
0.3	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 51	Haywood
0.3	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 51	Haywood
0.2	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 51	Haywood
0.2	<i>Aster</i>	sp.	aster	Asteraceae	mm 51	Haywood
0.1	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 51	Haywood
0.2	<i>Galium</i>	sp.	bedstraw	Rubiaceae	mm 51	Haywood

Appendix II. (Continued).

Interstate 40 (3 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
25.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 102	Henderson
21.3	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 102	Henderson
11.7	<i>Liquidambar</i>	<i>styraciflua</i>	sweet gum	Hamamelidaceae	mm 102	Henderson
10.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 102	Henderson
6.0	<i>Elephantopus</i>	<i>tomentosus</i>	elephant's foot	Asteraceae	mm 102	Henderson
4.8	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 102	Henderson
3.5	<i>Agrimonia</i>	<i>parviflora</i>	agrimony	Rosaceae	mm 102	Henderson
3.2	<i>Campsis</i>	<i>radicans</i>	Trumpet creeper	Bignoniaceae	mm 102	Henderson
3.0	<i>Geum</i>	<i>canadensis</i>	white avens	Rosaceae	mm 102	Henderson
2.7	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 102	Henderson
2.6	<i>Galium</i>	<i>sp.</i>	bedstraw	Rubiaceae	mm 102	Henderson
2.5	<i>Diospyros</i>	<i>virginiana</i>	persimmon	Ebenaceae	mm 102	Henderson
2.0	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 102	Henderson
2.0	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 102	Henderson
2.0	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 102	Henderson
2.0	<i>Clematis</i>	<i>virginiana</i>	virgin's bower	Ranunculaceae	mm 102	Henderson
2.0	<i>Coreopsis</i>	<i>sp.</i>	coreopsis	Asteraceae	mm 102	Henderson
2.0	<i>Morus</i>	<i>rubrum</i>	red mulberry	Moraceae	mm 102	Henderson
1.5	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 102	Henderson
1.5	<i>Hypericum</i>	<i>sp.</i>	St. John's-wort (native)	Hypericaceae	mm 102	Henderson
1.4	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 102	Henderson
1.1	<i>Panicum</i>	<i>sp.</i>	panic grass	Poaceae	mm 102	Henderson
1.0	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 102	Henderson
1.0	<i>Melilotus</i>	<i>alba</i>	white sweet clover	Fabaceae	mm 102	Henderson
1.0	<i>Eupatorium</i>	<i>sp.</i>	winged eupatorium	Asteraceae	mm 102	Henderson
1.0	<i>Prunus</i>	<i>serotinum</i>	black cherry	Rosaceae	mm 102	Henderson
0.9	<i>Sonchus</i>	<i>sp.</i>	sow thistle	Asteraceae	mm 102	Henderson
0.8	<i>Ipomoea</i>	<i>pandurata</i>	man root	Convolvulaceae	mm 102	Henderson
0.7	<i>Erianthus</i>	<i>alopecuroides</i>	beardgrass	Poaceae	mm 102	Henderson
0.5	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 102	Henderson
0.5	<i>Passiflora</i>	<i>incarnata</i>	maypops	Passifloraceae	mm 102	Henderson
0.4	<i>Achillea</i>	<i>millefolium</i>	yarrow	Asteraceae	mm 102	Henderson
0.4	<i>Asclepias</i>	<i>tuberosa</i>	butterfly weed	Asclepiadaceae	mm 102	Henderson
0.4	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 102	Henderson
0.3	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 102	Henderson
0.3	<i>Cassia</i>	<i>fasciculata</i>	partridge pea	Fabaceae	mm 102	Henderson
0.3	<i>Melothria</i>	<i>pendula</i>	creeping cucumber	Cucurbitaceae	mm 102	Henderson
0.3	<i>Lactuca</i>	<i>serriola</i>	prickly lettuce	Asteraceae	mm 102	Henderson
0.1	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 102	Henderson
0.1	<i>Tifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 102	Henderson

Appendix II. (Continued).

Interstate 40 (4 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
15.8	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm155.5	Hickman
9.8	<i>Symporicarpos</i>	<i>orbiculatus</i>	coral berry	Caprifoliaceae	mm155.5	Hickman
9.8	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm155.5	Hickman
9.2	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm155.5	Hickman
8.1	<i>Valerianella</i>	<i>radiata</i>	corn salad	Valerianaceae	mm155.5	Hickman
7.0	<i>Juncus</i>	<i>tenuis</i>	slender rush	Juncaceae	mm155.5	Hickman
7.0	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm155.5	Hickman
6.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm155.5	Hickman
5.5	<i>Morus</i>	<i>rubra</i>	red mulberry	Moraceae	mm155.5	Hickman
3.7	<i>Chaerophyllum</i>	<i>tainturieri</i>	chervil	Apiaceae	mm155.5	Hickman
3.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm155.5	Hickman
3.3	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm155.5	Hickman
2.7	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm155.5	Hickman
2.5	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm155.5	Hickman
2.5	<i>Galium</i>	<i>aparine</i>	bedstraw	Rubiaceae	mm155.5	Hickman
2.5	<i>Sassafrass</i>	<i>albidum</i>	sassafrass	Lauraceae	mm155.5	Hickman
2.0	<i>Verbesina</i>	<i>sp.</i>	wingstem	Asteraceae	mm155.5	Hickman
2.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm155.5	Hickman
1.9	<i>Veronica</i>	<i>arvensis</i>	corn speedwell	Scrophulariaceae	mm155.5	Hickman
1.7	<i>Stellaria</i>	<i>media</i>	common chickweed	Caryophyllaceae	mm155.5	Hickman
1.6	<i>Cardamine</i>	<i>hirsutum</i>	hairy bittercress	Brassicaceae	mm155.5	Hickman
1.5	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm155.5	Hickman
1.4	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm155.5	Hickman
1.3	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm155.5	Hickman
1.0	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm155.5	Hickman
1.0	<i>Trifolium</i>	<i>repens</i>	white clover	Fabaceae	mm155.5	Hickman
1.0	<i>Erigeron</i>	<i>philadelphicus</i>	Philadelphia fleabane	Asteraceae	mm155.5	Hickman
1.0	<i>Vernonia</i>	<i>altissima</i>	ironweed	Asteraceae	mm155.5	Hickman
1.0	<i>Ulmus</i>	<i>alata</i>	winged elm	Ulmaceae	mm155.5	Hickman
0.8	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm155.5	Hickman
0.8	<i>Muhlenbergia</i>	<i>sp.</i>	nimblewill	Poaceae	mm155.5	Hickman
0.7	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm155.5	Hickman
0.7	<i>Cocculus</i>	<i>carolinus</i>	Carolina moonseed	Menispermaceae	mm155.5	Hickman
0.5	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm155.5	Hickman
0.5	<i>Gnaphalium</i>	<i>purpureum</i>	purple cudweed	Asteraceae	mm155.5	Hickman
0.5	<i>Geranium</i>	<i>dissectum</i>	dissected geranium	Geraniaceae	mm155.5	Hickman
0.5	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm155.5	Hickman
0.5	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm155.5	Hickman
0.4	<i>Polygonum</i>	<i>convolvulus</i>	wild buckwheat	Polygonaceae	mm155.5	Hickman
0.4	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm155.5	Hickman
0.3	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm155.5	Hickman
0.3	<i>Geum</i>	<i>sp.</i>	avens	Rosaceae	mm155.5	Hickman
0.3	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm155.5	Hickman
0.2	<i>Cyperus</i>	<i>sp.</i>	sedge	Cyperaceae	mm155.5	Hickman
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm155.5	Hickman
0.1	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm155.5	Hickman
0.1	<i>Hordeum</i>	<i>pusillum</i>	little barley	Poaceae	mm155.5	Hickman
0.1	<i>Chenopodium</i>	<i>album</i>	lambsquarter	Chenopodiaceae	mm155.5	Hickman

Appendix II. (Continued).

Interstate 40 (5 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
15.7	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 237	Wilson
10.5	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 237	Wilson
9.8	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 237	Wilson
5.0	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 237	Wilson
4.6	<i>Verbesina</i>	<i>sp.</i>	wingstem	Asteraceae	mm 237	Wilson
4.6	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 237	Wilson
4.3	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 237	Wilson
4.0	<i>Ambrosia</i>	<i>trifida</i>	giant ragweed	Asteraceae	mm 237	Wilson
3.6	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 237	Wilson
3.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 237	Wilson
3.5	<i>Symporicarpos</i>	<i>orbiculatus</i>	coral berry	Caprifoliaceae	mm 237	Wilson
2.8	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 237	Wilson
2.5	<i>Fragaria</i>	<i>virginica</i>	wild strawberry	Rosaceae	mm 237	Wilson
2.3	<i>Lolium</i>	<i>multiflorum</i>	Italian ryegrass	Poaceae	mm 237	Wilson
2.3	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 237	Wilson
2.2	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 237	Wilson
2.0	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 237	Wilson
2.0	<i>Geum</i>	<i>canadensis</i>	white avens	Rosaceae	mm 237	Wilson
1.8	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 237	Wilson
1.5	<i>Potentilla</i>	<i>recta</i>	sulfur cinquefoil	Rosaceae	mm 237	Wilson
1.5			unidentified moss		mm 237	Wilson
1.5	<i>Triticum</i>	<i>aestivum</i>	wheat	Poaceae	mm 237	Wilson
1.5	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 237	Wilson
1.3	<i>Grindelia</i>	<i>lanceolata</i>	lanceleaf gumweed	Asteraceae	mm 237	Wilson
1.2	<i>Euphorbia</i>	<i>supina</i>	prostrate spurge	Euphorbiaceae	mm 237	Wilson
1.2	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 237	Wilson
1.1	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 237	Wilson
1.0	<i>Hypericum</i>	<i>prolificum</i>	St. John's-wort	Hypericaceae	mm 237	Wilson
1.0	<i>Setaria</i>	<i>viridis</i>	green foxtail	Poaceae	mm 237	Wilson
1.0	<i>Fraxinus</i>	<i>pennsylvanica</i>	green ash	Oleaceae	mm 237	Wilson
1.0	<i>Acalypha</i>	<i>virginica</i>	Virginia copperleaf	Euphorbiaceae	mm 237	Wilson
0.9	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 237	Wilson
0.9	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 237	Wilson
0.8	<i>Quercus</i>	<i>prinus</i>	chestnut oak	Fagaceae	mm 237	Wilson
0.8	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 237	Wilson
0.8	<i>Physalis</i>	<i>sp.</i>	smooth ground cherry	Solanaceae	mm 237	Wilson
0.8	<i>Verbascum</i>	<i>blattaria</i>	moth mullein	Scrophulariaceae	mm 237	Wilson
0.7	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 237	Wilson
0.5	<i>Eragrostis</i>	<i>curvula</i>	weeping lovegrass	Poaceae	mm 237	Wilson
0.5	<i>Onosmodium</i>	<i>molle</i>	false gromwell	Boraginaceae	mm 237	Wilson
0.4	<i>Tragopogon</i>	<i>dubius</i>	goat's beard	Asteraceae	mm 237	Wilson
0.4	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 237	Wilson
0.3	<i>Carduus</i>	<i>nutans</i>	musk thistle	Asteraceae	mm 237	Wilson
0.3	<i>Lactuca</i>	<i>sp.</i>	wild lettuce	Asteraceae	mm 237	Wilson
0.2	<i>Dianthus</i>	<i>armeria</i>	Deptford pink	Caryophyllaceae	mm 237	Wilson
0.2	<i>Arenaria</i>	<i>patula</i>	glade sandwort	Caryophyllaceae	mm 237	Wilson
0.2	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 237	Wilson
0.2	<i>Cuscuta</i>	<i>sp.</i>	dodder	Convolvulaceae	mm 237	Wilson
0.2	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 237	Wilson
0.2	<i>Torilis</i>	<i>arvensis</i>	hedge parsley	Apiaceae	mm 237	Wilson
0.2	<i>Verbena</i>	<i>simplex</i>	narrow leaved vervain	Verbenaceae	mm 237	Wilson
0.1	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 237	Wilson
0.1	<i>Cerastium</i>	<i>vulgatum</i>	mouse-ear chickweed	Caryophyllaceae	mm 237	Wilson
0.1	<i>Plantago</i>	<i>virginiana</i>	paleseed plantain	Plantaginaceae	mm 237	Wilson

Appendix II. (Continued).

Interstate 40 (6 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
19.5	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 287	Putnam
9.0	<i>Pueraria</i>	<i>lobata</i>	kudzu	Fabaceae	mm 287	Putnam
8.5	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 287	Putnam
7.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 287	Putnam
7.0	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 287	Putnam
6.0	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 287	Putnam
4.5	<i>Cirsium</i>	<i>discolor</i>	field thistle	Asteraceae	mm 287	Putnam
4.2	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 287	Putnam
4.0	<i>Salix</i>	<i>rubra</i>	red willow	Salicaceae	mm 287	Putnam
4.0	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 287	Putnam
3.5	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 287	Putnam
3.0	<i>Celastrus</i>	<i>orbiculatus</i>	oriental bittersweet	Celastraceae	mm 287	Putnam
2.7	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 287	Putnam
2.5	<i>Torylus</i>	<i>arvensis</i>	hedge parsley	Apiaceae	mm 287	Putnam
2.3	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 287	Putnam
2.0	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 287	Putnam
2.0	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 287	Putnam
1.5	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 287	Putnam
1.5	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 287	Putnam
1.5	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 287	Putnam
1.5	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 287	Putnam
1.2	<i>Bromus</i>	<i>japonicus</i>	Japanese brome	Poaceae	mm 287	Putnam
1.0	<i>Typha</i>	<i>latifolia</i>	common cat-tail	Typhaceae	mm 287	Putnam
1.0	<i>Rhus</i>	<i>glabra</i>	smooth sumac	Anacardiaceae	mm 287	Putnam
1.0	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 287	Putnam
1.0	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm 287	Putnam
1.0	<i>Rhamnus</i>	<i>caroliniana</i>	Carolina buckthorn	Rhamnaceae	mm 287	Putnam
1.0	<i>Tridens</i>	<i>flavus</i>	purpletop	Poaceae	mm 287	Putnam
0.8	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 287	Putnam
0.5	<i>Cirsium</i>	<i>vulgare</i>	bull thistle	Asteraceae	mm 287	Putnam
0.5	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 287	Putnam
0.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 287	Putnam
0.5	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 287	Putnam
0.5	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 287	Putnam
0.3	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 287	Putnam

Appendix II. (Continued).

Interstate 40 (7 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
21.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 337	Cumberland
9.0	<i>Potentilla</i>	<i>recta</i>	sulfur cinquefoil	Rosaceae	mm 337	Cumberland
8.0	<i>Pinus</i>	<i>sp.</i>	pine seedlings	Pinaceae	mm 337	Cumberland
7.3	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 337	Cumberland
7.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 337	Cumberland
4.8	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm 337	Cumberland
3.8	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 337	Cumberland
3.2	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 337	Cumberland
2.8	<i>Eragrostis</i>	<i>pectinacea</i>	feathery lovegrass	Poaceae	mm 337	Cumberland
2.6	<i>Prunella</i>	<i>vulgaris</i>	heal all	Lamiaceae	mm 337	Cumberland
2.5	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 337	Cumberland
2.5	<i>Acer</i>	<i>rubrum</i>	red maple	Aceraceae	mm 337	Cumberland
2.5	<i>Quercus</i>	<i>rubra</i>	red oak	Fagaceae	mm 337	Cumberland
2.5	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 337	Cumberland
2.4	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 337	Cumberland
2.4	<i>Coreopsis</i>	<i>major</i>	coreopsis	Asteraceae	mm 337	Cumberland
2.1	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 337	Cumberland
2.0	<i>Ligustrum</i>	<i>vulgare</i>	common privet	Oleaceae	mm 337	Cumberland
2.0	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 337	Cumberland
1.7	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 337	Cumberland
1.6	<i>Andropogon</i>	<i>virginicus</i>	broomsedge	Poaceae	mm 337	Cumberland
1.5	<i>Senecio</i>	<i>sp.</i>	ragwort (native)	Asteraceae	mm 337	Cumberland
1.5	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 337	Cumberland
1.5	<i>Prunus</i>	<i>serrotina</i>	black cherry	Rosaceae	mm 337	Cumberland
1.4	<i>Panicum</i>	<i>sp.</i>	large panic grass 1	Poaceae	mm 337	Cumberland
1.3	<i>Galium</i>	<i>sp.</i>	bedstraw	Rubiaceae	mm 337	Cumberland
1.3	<i>Ranunculus</i>	<i>recurvatus</i>	hooked buttercup	Ranunculaceae	mm 337	Cumberland
1.1	<i>Croton</i>	<i>monanthogynus</i>	prairie tea	Euphorbiaceae	mm 337	Cumberland
1.1	<i>Panicum</i>	<i>sp.</i>	panic grass 2	Poaceae	mm 337	Cumberland
1.0	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 337	Cumberland
1.0	<i>Quercus</i>	<i>alba</i>	white oak	Fagaceae	mm 337	Cumberland
0.9	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 337	Cumberland
0.8	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 337	Cumberland
0.8	<i>Achillea</i>	<i>millefolium</i>	yarrow	Asteraceae	mm 337	Cumberland
0.8	<i>Verbena</i>	<i>simplex</i>	narrow leaved vervain	Verbenaceae	mm 337	Cumberland
0.8	<i>Eupatorium</i>	<i>rotundifolium</i>	round leaved thoroughwort	Asteraceae	mm 337	Cumberland
0.6	<i>Plantago</i>	<i>major</i>	plantain	Plantaginaceae	mm 337	Cumberland
0.6	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 337	Cumberland
0.6	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 337	Cumberland
0.5	<i>Smilax</i>	<i>sp.</i>	greenbriar	Smilacaceae	mm 337	Cumberland
0.5	<i>Carya</i>	<i>sp.</i>	hickory (seedling)	Juglandaceae	mm 337	Cumberland
0.5	<i>Euphorbia</i>	<i>dentata</i>	tooth leaf spurge	Euphorbiaceae	mm 337	Cumberland
0.5	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 337	Cumberland
0.5	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 337	Cumberland
0.4	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 337	Cumberland
0.4	<i>Lactuca</i>	<i>canadensis</i>	wild lettuce	Asteraceae	mm 337	Cumberland
0.3			unknown grass	Poaceae	mm 337	Cumberland
0.3	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 337	Cumberland
0.3	<i>Eupatorium</i>	<i>serotinum</i>	lateflowering thoroughwort	Asteraceae	mm 337	Cumberland
0.2	<i>Geranium</i>	<i>carolinianum</i>	Carolina geranium	Geraniaceae	mm 337	Cumberland
0.1	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 337	Cumberland
0.1	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 337	Cumberland

Appendix II. (Continued).

Interstate 40 (8 of 9 sites)

% cover	<i>Genus</i>	<i>species</i>	Common name	Family name	MM	County
25.3	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 384	Knox
13.3	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 384	Knox
12.0	<i>Paspalum</i>	<i>dilatatum</i>	dallis grass	Poaceae	mm 384	Knox
10.8	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 384	Knox
8.0	<i>Celtis</i>	<i>occidentalis</i>	hackberry	Ulmaceae	mm 384	Knox
8.0	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 384	Knox
8.0	<i>Acer</i>	<i>negundo</i>	boxelder	Aceraceae	mm 384	Knox
7.0	<i>Rosa</i>	<i>multiflora</i>	multiflora rose	Rosaceae	mm 384	Knox
6.3	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 384	Knox
5.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 384	Knox
5.0	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 384	Knox
4.0	<i>Ailanthus</i>	<i>altissima</i>	tree-of-heaven	Simaroubaceae	mm 384	Knox
4.0	<i>Sassafrass</i>	<i>albidum</i>	sassafrass	Lauraceae	mm 384	Knox
3.8	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 384	Knox
2.9	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Lamiaceae	mm 384	Knox
2.8	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 384	Knox
2.3	<i>Chrysanthemum</i>	<i>leucanthemum</i>	ox-eye daisy	Asteraceae	mm 384	Knox
2.0	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 384	Knox
2.0	<i>Cornus</i>	<i>florida</i>	flowering dogwood	Cornaceae	mm 384	Knox
1.8	<i>Lespedeza</i>	<i>cuneata</i>	sericea lespedeza	Fabaceae	mm 384	Knox
1.8	<i>Convolvulus</i>	<i>arvensis</i>	field bindweed	Convolvulaceae	mm 384	Knox
1.5	<i>Setaria</i>	<i>(glauca) pumila</i>	yellow foxtail	Poaceae	mm 384	Knox
1.5	<i>Artemisia</i>	<i>vulgaris</i>	mugwort	Asteraceae	mm 384	Knox
1.5	<i>Pinus</i>	<i>virginiana</i>	Virginia pine	Pinaceae	mm 384	Knox
1.5	<i>Fragaria</i>	<i>virginiana</i>	wild strawberry	Rosaceae	mm 384	Knox
1.5	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 384	Knox
1.3	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 384	Knox
1.0	<i>Apocynum</i>	<i>cannabinum</i>	hemp dogbane	Apocynaceae	mm 384	Knox
1.0	<i>Lonicera</i>	<i>maackii</i>	bush honeysuckle	Caprifoliaceae	mm 384	Knox
1.0	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 384	Knox
1.0	<i>Polygonum</i>	<i>convolvulus</i>	wild buckwheat	Polygonaceae	mm 384	Knox
0.6	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 384	Knox
0.6	<i>Taraxacum</i>	<i>officinalis</i>	dandelion	Asteraceae	mm 384	Knox
0.5	<i>Medicago</i>	<i>lupulina</i>	black medic	Fabaceae	mm 384	Knox
0.5	<i>Veronica</i>	<i>arvensis</i>	corn speedwell	Scrophulariaceae	mm 384	Knox
0.5	<i>Juniperus</i>	<i>virginiana</i>	eastern redcedar	Cupressaceae	mm 384	Knox
0.5	<i>Cocculus</i>	<i>carolinus</i>	Carolina moonseed	Menispermaceae	mm 384	Knox
0.4	<i>Senecio</i>	<i>sp.</i>	ragwort (native)	Asteraceae	mm 384	Knox
0.4	<i>Geranium</i>	<i>carolinianum</i>	horsenettle	Geraniaceae	mm 384	Knox
0.4	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 384	Knox
0.3	<i>Poa</i>	<i>pratensis</i>	Kentucky bluegrass	Poaceae	mm 384	Knox
0.3	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 384	Knox
0.3	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 384	Knox
0.3	<i>Ranunculus</i>	<i>sp.</i>	buttercup	Ranunculaceae	mm 384	Knox
0.3	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 384	Knox
0.2	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 384	Knox
0.2	<i>Sonchus</i>	<i>asper</i>	prickly sow thistle	Asteraceae	mm 384	Knox
0.2	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 384	Knox

Appendix II. (Continued).

Interstate 40 (9 of 9 sites)

% cover	Genus	species	Common name	Family name	MM	County
17.0	<i>Festuca</i>	<i>arundinacea</i>	tall fescue	Poaceae	mm 447	Cocke
15.6	<i>Solidago</i>	<i>sp.</i>	goldenrod	Asteraceae	mm 447	Cocke
8.0	<i>Phalaris</i>	<i>sp.</i>	canarygrass	Poaceae	mm 447	Cocke
7.5	<i>Vitis</i>	<i>sp.</i>	grapevine	Vitaceae	mm 447	Cocke
6.0	<i>Clematis</i>	<i>virginiana</i>	virgin's bower	Ranunculaceae	mm 447	Cocke
6.0	<i>Aster</i>	<i>sp.</i>	aster	Asteraceae	mm 447	Cocke
5.1	<i>Ailanthus</i>	<i>altissima</i>	tree-of-heaven	Simaroubaceae	mm 447	Cocke
5.0	<i>Microstegium</i>	<i>vimineum</i>	Nepal grass	Poaceae	mm 447	Cocke
5.0	<i>Rhus</i>	<i>copallina</i>	winged sumac	Anacardiaceae	mm 447	Cocke
5.0	<i>Liriodendron</i>	<i>tulipifera</i>	tulip poplar	Magnoliaceae	mm 447	Cocke
4.8	<i>Parthenocissus</i>	<i>quinquefolia</i>	Virginia creeper	Vitaceae	mm 447	Cocke
4.0	<i>Juglans</i>	<i>nigra</i>	black walnut	Juglandaceae	mm 447	Cocke
3.8	<i>Rubus</i>	<i>sp.</i>	blackberry	Rosaceae	mm 447	Cocke
3.5	<i>Toxicodendron</i>	<i>radicans</i>	poison ivy	Anacardiaceae	mm 447	Cocke
3.5	<i>Cichorium</i>	<i>intybus</i>	chickory	Asteraceae	mm 447	Cocke
3.3	<i>Lonicera</i>	<i>japonica</i>	Japanese honeysuckle	Caprifoliaceae	mm 447	Cocke
3.0	<i>Desmodium</i>	<i>sp.</i>	desmodium	Fabaceae	mm 447	Cocke
2.2	<i>Plantago</i>	<i>lanceolata</i>	lanceleaf plantain	Plantaginaceae	mm 447	Cocke
2.0	<i>Plantago</i>	<i>major</i>	plantain	Plantaginaceae	mm 447	Cocke
2.0	<i>Prunus</i>	<i>serotina</i>	black cherry	Rosaceae	mm 447	Cocke
1.5	<i>Geranium</i>	<i>maculatum</i>	wild geranium	Geraniaceae	mm 447	Cocke
1.5	<i>Cynodon</i>	<i>dactylon</i>	bermuda grass	Poaceae	mm 447	Cocke
1.5	<i>Aster</i>	<i>sp. 2</i>	aster	Asteraceae	mm 447	Cocke
1.2	<i>Geranium</i>	<i>dissectum</i>	dissected geranium	Geraniaceae	mm 447	Cocke
1.2	<i>Lepidium</i>	<i>virginicum</i>	Virginia pepperweed	Brassicaceae	mm 447	Cocke
1.2	<i>Ambrosia</i>	<i>artemisiifolia</i>	common ragweed	Asteraceae	mm 447	Cocke
1.1	<i>Dactylis</i>	<i>glomerata</i>	orchardgrass	Poaceae	mm 447	Cocke
1.1	<i>Vernonia</i>	<i>altissima</i>	ironweed	Asteraceae	mm 447	Cocke
1.0	<i>Arctium</i>	<i>minus</i>	common burdock	Asteraceae	mm 447	Cocke
0.9	<i>Vicia</i>	<i>dasycarpa</i>	smooth vetch	Fabaceae	mm 447	Cocke
0.9	<i>Bromus</i>	<i>tectorum</i>	downy brome	Poaceae	mm 447	Cocke
0.8	<i>Eupatorium</i>	<i>fistulosum</i>	Joe-Pye-weed	Asteraceae	mm 447	Cocke
0.7	<i>Daucus</i>	<i>carota</i>	wild carrot	Apiaceae	mm 447	Cocke
0.6	<i>Sorghum</i>	<i>halapense</i>	Johnsongrass	Poaceae	mm 447	Cocke
0.6	<i>Achillea</i>	<i>millefolium</i>	yarrow	Asteraceae	mm 447	Cocke
0.6	<i>Allium</i>	<i>vineale</i>	field garlic	Liliaceae	mm 447	Cocke
0.5	<i>Trifolium</i>	<i>pratense</i>	red clover	Fabaceae	mm 447	Cocke
0.5	<i>Echinacea</i>	<i>purpurea</i>	purple coneflower (planted)	Asteraceae	mm 447	Cocke
0.5	<i>Juncus</i>	<i>tenuis</i>	slender rush	Juncaceae	mm 447	Cocke
0.5	<i>Solanum</i>	<i>carolinense</i>	horsenettle	Solanaceae	mm 447	Cocke
0.5	<i>Potentilla</i>	<i>simplex</i>	oldfield cinquefoil	Verbenaceae	mm 447	Cocke
0.5	<i>Verbesina</i>	<i>sp.</i>	wingstem	Asteraceae	mm 447	Cocke
0.5	<i>Cosmos</i>	<i>sulfureanus</i>	cosmos	Asteraceae	mm 447	Cocke
0.4	<i>Salvia</i>	<i>lyrata</i>	lyre-leaf sage	Lamiaceae	mm 447	Cocke
0.4	<i>Cerastium</i>	<i>vulgare</i>	mouse-ear chickweed	Caryophyllaceae	mm 447	Cocke
0.4	<i>Erigeron</i>	<i>annuus</i>	daisy fleabane	Asteraceae	mm 447	Cocke
0.4	<i>Oxalis</i>	<i>stricta</i>	yellow wood-sorrel	Oxalidaceae	mm 447	Cocke
0.4	<i>Cynanchum</i>	<i>laeve</i>	honeyvine milkweed	Asclepiadaceae	mm 447	Cocke
0.4	<i>Dianthus</i>	<i>armeria</i>	deptford pink	Caryophyllaceae	mm 447	Cocke
0.4	<i>Hypericum</i>	<i>sp.</i>	St. John's-wort (native)	Clusiaceae	mm 447	Cocke
0.3	<i>Trifolium</i>	<i>campestre</i>	low hop clover	Fabaceae	mm 447	Cocke
0.3	<i>Lactuca</i>	<i>sp.</i>	yellow	Asteraceae	mm 447	Cocke
0.3	<i>Ranunculus</i>	<i>sp.</i>	buttercup	Ranunculaceae	mm 447	Cocke
0.2	<i>Taraxacum</i>	<i>officinale</i>	dandelion	Asteraceae	mm 447	Cocke
0.2	<i>Rumex</i>	<i>crispus</i>	curly dock	Polygonaceae	mm 447	Cocke
0.1	<i>Diodia</i>	<i>virginiana</i>	Virginia buttonweed	Rubiaceae	mm 447	Cocke

APPENDIX III

**TOP 30 MOST FREQUENTLY
OCCURRING PLANT SPECIES
FOUND AT QUALITATIVE
SAMPLING SITES
ALONG EACH
INTERSTATE**

SPRING 1997

Appendix III-A. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=5) along TN840, Spring 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
5	100%	<i>Carduus nutans</i> *	musk thistle	R	1
5	100%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
5	100%	<i>Trifolium procumbens</i> *	low hop clover		
5	100%	<i>Erigeron</i> sp.			
4	80%	<i>Coronilla varia</i> *	crown vetch		2
4	80%	<i>Festuca arundinacea</i> *	tall fescue		
4	80%	<i>Melilotus alba</i> *	white sweet clover		2
4	80%	<i>Rumex crispus</i> *	curly dock	R	
4	80%	<i>Tragopogon dubius</i> *	goat's beard		3
4	80%	<i>Ambrosia artemisiifolia</i>	common ragweed		
4	80%	<i>Geranium carolinense</i>	Carolina geranium		
4	80%	<i>Bromus</i> sp.	brome		
4	80%	<i>Lolium italicum</i> *	Italian ryegrass		
3	60%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
3	60%	<i>Daucus carota</i> *	wild carrot		3
3	60%	<i>Allium vineale</i> *	field garlic	R	
3	60%	<i>Trifolium pratense</i> *	red clover		
3	60%	<i>Dactylis glomerata</i> *	orchardgrass		
3	60%	<i>Melilotus officinalis</i> *	yellow sweet clover		2
3	60%	<i>Cirsium</i> sp.	thistle		
3	60%	<i>Oenothera biennis</i>	common evening primrose		
3	60%	<i>Symporicarpos orbiculatus</i>	coral berry		
3	60%	<i>Erigeron canadensis</i>	horseweed		
3	60%	<i>Solanum carolinense</i>	horsenettle		
2	40%	<i>Lactuca</i> sp.	wild lettuce		
2	40%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
2	40%	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
2	40%	<i>Rosa multiflora</i> *	multiflora rose		1
2	40%	<i>Hypericum perforatum</i> *	St. John's-wort		4
2	40%	<i>Verbascum thapsus</i> *	woolly mullein		2

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Appendix III-B. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=12) along I-181/US 23, Spring 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
10	83	<i>Daucus carota*</i>	wild carrot		3
10	83	<i>Chrysanthemum leucanthemum*</i>	ox-eye daisy		2
10	83	<i>Festuca arundinacea*</i>	tall fescue		
10	83	<i>Bromus sp.*</i>	brome	R	2
9	75	<i>Plantago lanceolata*</i>	lanceleaf plantain	R	
9	75	<i>Melilotus alba*</i>	white sweet clover		2
9	75	<i>Lespedeza cuneata*</i>	sericea lespedeza		1
9	75	<i>Erigeron sp.</i>			
9	75	<i>Dactylis glomerata*</i>	orchardgrass		
8	67	<i>Cichorium intybus*</i>	chickory		3
8	67	<i>Trifolium pratense*</i>	red clover		
8	67	<i>Trifolium procumbens*</i>	low hop clover		
7	58	<i>Lactuca serriola*</i>	prickly lettuce		
7	58	<i>Rubus sp.</i>	blackberry		
7	58	<i>Coronilla varia*</i>	crown vetch		2
7	58	<i>Medicago lupulina*</i>	black medic		
6	50	<i>Verbascum thapsus*</i>	woolly mullein		2
6	50	<i>Senecio sp.</i>	ragwort		
6	50	<i>Cirsium sp.</i>	thistles		2
6	50	<i>Plantago major</i>	plantain		
5	42	<i>Lonicera japonica*</i>	Japanese honeysuckle		1
5	42	<i>Potentilla recta*</i>	sulfur cinquefoil		
5	42	<i>Taraxacum officinale*</i>	dandelion		
5	42	<i>Toxicodendron radicans</i>	poison ivy		
5	42	<i>Liriodendron tulipifera</i>	tulip poplar		
5	42	<i>Robinia pseudo-acacia</i>	black locust		
5	42	<i>Acer rubrum</i>	red maple		
4	33	<i>Melilotus alba*</i>	white sweet clover		
4	33	<i>Rumex obtusifolius*</i>	bitter dock	R	
4	33	<i>Lolium italicum*</i>	Italian ryegrass		

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Appendix III-C. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=15) along I-81, Spring 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
15	100	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
15	100	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
13	87	<i>Cichorium intybus</i> *	chickory		3
13	87	<i>Melilotus alba</i> *	white sweet clover		2
13	87	<i>Festuca arundinacea</i> *	tall fescue		
13	87	<i>Erigeron</i> sp.			
13	87	<i>Juniperus virginiana</i>	eastern redcedar		
12	80	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
12	80	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
11	73	<i>Bromus</i> sp.*	brome	R	2
10	67	<i>Sorghum halapense</i> *	Johnsongrass	P	1
10	67	<i>Medicago lupulina</i> *	black medic		
10	67	<i>Allium vineale</i> *	field garlic	R	2
10	67	<i>Cirsium</i> sp.	thistle		2
10	67	<i>Rubus</i> sp.	blackberry		
10	67	<i>Trifolium pratense</i> *	red clover		
10	67	<i>Trifolium procumbens</i> *	low hop clover		
8	53	<i>Rumex crispus</i> *	curly dock	R	
8	53	<i>Potentilla recta</i> *	sulfur cinquefoil		
8	53	<i>Asclepias syriaca</i>	common milkweed		
7	47	<i>Rhus glabra</i>	smooth sumac		
7	47	<i>Lactuca serriola</i> *	prickly lettuce		
7	47	<i>Andropogon virginicus</i>	broomsedge		
7	47	<i>Senecio</i> spp.	ragwort		
6	40	<i>Hypericum perforatum</i> *	St. John's-wort		4
6	40	<i>Ailanthus altissima</i> *	tree-of-heaven		1
6	40	<i>Dactylis glomerata</i> *	orchardgrass		
6	40	<i>Dianthus armeria</i> *	Deptford pink		
6	40	<i>Oxalis stricta</i> *	yellow wood-sorrel		
6	40	<i>Solanum carolinense</i>	horsenettle	R	

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Appendix III-D . Top 30 most frequently occurring plant species found at qualitative sampling sites (n=26) along I-75, Spring 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
24	92	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
22	85	<i>Festuca arundinacea</i> *	tall fescue		
22	85	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
22	85	<i>Erigeron</i> sp.	fleabane		
21	81	<i>Daucus carota</i> *	wild carrot		3
21	81	<i>Cirsium</i> sp.	thistles		2
20	77	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
20	77	<i>Bromus</i> sp.*	brome	R	2
19	73	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
19	73	<i>Medicago lupulina</i> *	black medic		
19	73	<i>Rubus</i> sp.	blackberry		
18	70	<i>Allium vineale</i> *	field garlic	R	2
18	70	<i>Trifolium pratense</i> *	red clover		
17	65	<i>Cichorium intybus</i> *	chickory		3
16	62	<i>Juniperus virginiana</i>	eastern redcedar		
15	58	<i>Ambrosia artemisiifolia</i>	common ragweed		
14	54	<i>Lactuca serriola</i> *	prickly lettuce		
13	50	<i>Toxicodendron radicans</i>	poison ivy		
13	50	<i>Taraxacum officinale</i> *	dandelion		
12	46	<i>Solanum carolinense</i>	horsenettle	R	
11	42	<i>Rumex crispus</i> *	curly dock	R	
11	42	<i>Geranium carolinianum</i>	Carolina geranium		
10	38	<i>Dactylis glomerata</i> *	orchardgrass		
10	38	<i>Melilotus alba</i> *	white sweet clover		2
10	38	<i>Ligustrum</i> sp.*	privet		1
10	38	<i>Rhus glabra</i>	smooth sumac		
10	38	<i>Lepidium virginianum</i>	Virginia pepperweed		
9	35	<i>Campsis radicans</i>	trumpet creeper		
9	35	<i>Oxalis stricta</i> *	yellow wood-sorrel		
9	35	<i>Ranunculus</i> sp.*	buttercup		

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix III-E . Top 30 most frequently occurring plant species found at qualitative sampling sites (n=26) along I-65, Spring 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
23	89	<i>Festuca arundinacea</i> *	tall fescue		
23	89	<i>Bromus sp.</i> *	brome	R	2
21	81	<i>Carduus nutans</i> *	musk thistle	R	1
20	78	<i>Geranium carolinianum</i>	Carolina geranium		
18	69	<i>Daucus carota</i> *	wild carrot		3
18	69	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
17	65	<i>Oxalis stricta</i> *	yellow wood-sorrel		
16	61	<i>Hordeum pusillum</i> *	little barley		
16	61	<i>Sorghum halapense</i> *	Johnsongrass	P	1
15	58	<i>Galium aparine</i> *	bedstraw		
14	54	<i>Valerianella radiata</i>	corn salad		
14	54	<i>Veronica arvensis</i> *	corn speedwell		
14	54	<i>Trifolium procumbens</i> *	low hop clover		
13	50	<i>Cirsium sp.</i>	thistle		2
12	46	<i>Toxicodendron radicans</i>	poison ivy		
12	46	<i>Rubus sp.</i>	blackberry		
12	46	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
12	46	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
11	42	<i>Chaerophyllum tainturieri</i>	chervil		
11	42	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
11	42	<i>Sonchus asper</i> *	spiny sow thistle		
11	42	<i>Juniperus virginiana</i>	eastern redcedar		
11	42	<i>Taraxacum officinale</i> *	dandelion		
10	38	<i>Rumex crispus</i> *	curly dock	R	
10	38	<i>Melilotus officinalis</i> *	yellow sweet clover		2
10	38	<i>Vicia sativa</i> ssp. <i>nigra</i> *	narrowleaf vetch		
10	38	<i>Erigeron sp.</i>			
10	38	<i>Toxicodendron toxicarium</i>	poison oak		
9	35	<i>Trifolium pratense</i> *	red clover		
9	35	<i>Andropogon virginicus</i>	broomsedge		

* -exotic species

1 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix III-F. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=26) along I-40, Spring 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
70	81%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
65	75%	<i>Festuca arundinacea</i> *	tall fescue		
61	71%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
60	70%	<i>Daucus carota</i> *	wild carrot		3
57	66%	<i>Bromus sp.</i> *	brome	R	2
55	64%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
55	64%	<i>Rubus sp.</i>	blackberry		
53	62%	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
51	59%	<i>Erigeron sp.</i>			
49	57%	<i>Juniperus virginiana</i>	eastern redcedar		
48	56%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
46	53%	<i>Allium vineale</i> *	field garlic	R	
46	53%	<i>Lactuca serriola</i> *	prickly lettuce		
44	51%	<i>Cirsium sp.</i>	thistle		2
43	50%	<i>Toxicodendron radicans</i>	poison ivy		
43	50%	<i>Ambrosia artemisiifolia</i>	common ragweed		
43	50%	<i>Geranium carolinianum</i>	Carolina geranium		
44	51%	<i>Oxalis stricta</i> *	yellow wood-sorrel		
34	40%	<i>Parthenocissus quinquefolia</i>	Virginia creeper		
32	37%	<i>Campsis radicans</i>	trumpet creeper		
32	37%	<i>Medicago lupulina</i> *	black medic		
31	36%	<i>Valerianella radiata</i>	corn salad		
30	35%	<i>Rosa multiflora</i> *	multiflora rose		1
30	35%	<i>Rhus glabra</i>	smooth sumac		
28	33%	<i>Carduus nutans</i> *	musk thistle	R	1
27	31%	<i>Hordeum pusillum</i> *	little barley		
25	29%	<i>Smilax sp.</i>	greenbriar		
25	29%	<i>Dactylis glomerata</i> *	orchardgrass		
25	29%	<i>Senecio sp.</i>	ragwort		
24	28%	<i>Melilotus alba</i> *	white sweet clover		2

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix III-G . Top 30 most frequently occurring plant species found at qualitative sampling sites (n=33) along I-24, Spring 1997.

No. Sites	% Occurrence	Species	Common Name	TN-State Nox. Weed ¹	TN-EPPC Rank ²
28	84	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
26	78	<i>Bromus sp.</i> *	brome	R	2
25	75	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
25	75	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
24	72	<i>Juniperus virginiana</i>	eastern redcedar		
22	66	<i>Cirsium spp.</i>	thistle		2
21	63	<i>Festuca arundinacea</i> *	tall fescue		
20	60	<i>Sorghum halapense</i> *	Johnsongrass	P	1
20	60	<i>Medicago lupulina</i> *	black medic		
19	57	<i>Rubus sp.</i>	blackberry		
18	54	<i>Carduus nutans</i> *	musk thistle	R	1
18	54	<i>Hordeum pusillum</i> *	little barley		
18	54	<i>Trifolium pratense</i> *	red clover		
17	51	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
17	51	<i>Geranium carolinianum</i>	Carolina geranium		
17	51	<i>Rhus glabra</i>	smooth sumac		
16	48	<i>Ambrosia artemisiifolia</i>	common ragweed		
15	45	<i>Daucus carota</i> *	wild carrot		3
15	45	<i>Taraxacum officinale</i> *	dandelion		
14	42	<i>Melilotus officinalis</i> *	yellow sweet clover		2
14	42	<i>Oxalis stricta</i> *	yellow wood-sorrel		
14	42	<i>Lactuca serriola</i> *	prickly lettuce		
14	42	<i>Parthenocissus quinquefolia</i>	Virginia creeper		
14	42	<i>Vitis sp.</i>	grapevine		
12	36	<i>Galium aparine</i>	bedstraw		
12	36	<i>Veronica arvensis</i> *	corn speedwell		
12	36	<i>Dactylis glomerata</i> *	orchardgrass		
12	36	<i>Ranunculus sp.</i> *	buttercup		
12	36	<i>Erigeron sp.</i>			
12	36	<i>Cercis canadensis</i>	redbud		

* -exotic species

1 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

APPENDIX IV

**TOP 30 MOST FREQUENTLY
OCCURRING PLANT SPECIES
FOUND AT QUALITATIVE
SAMPLING SITES
ALONG EACH
INTERSTATE**

FALL 1997

Appendix IV-A. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=9) along I-181/US 23, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
8	89%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
8	89%	<i>Aster sp.</i>	aster		
8	89%	<i>Solidago sp.</i>	goldenrod		
7	78%	<i>Cichorium intybus</i> *	chickory		3
7	78	<i>Coronilla varia</i> *	crown vetch		
7	78%	<i>Setaria (glauca) pumila</i> *	yellow foxtail		
7	78%	<i>Trifolium pratense</i> *	red clover		
7	78%	<i>Andropogon virginicus</i>	broomsedge		
6	67%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
6	67%	<i>Verbascum thapsus</i> *	woolly mullein		2
6	67%	<i>Taraxacum officinale</i> *	dandelion		
6	67%	<i>Plantago major</i>	plantain		
5	56%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
5	56%	<i>Daucus carota</i> *	wild carrot		3
5	56%	<i>Setaria viridis</i> *	green foxtail		2
5	56%	<i>Festuca arundinacea</i> *	tall fescue		
5	56%	<i>Paspalum dilatatum</i> *	dallis grass		
5	56%	<i>Ambrosia artemisiifolia</i>	common ragweed		
5	56%	<i>Euphorbia maculata</i>	spotted spurge		
4	44%	<i>Cirsium vulgare</i> *	bull thistle		2
4	44%	<i>Digitaria sanguinalis</i> *	large crabgrass		
4	44%	<i>Oxalis stricta</i> *	yellow wood-sorrel		
4	44%	<i>Kummerowia stipulacea</i> *	Korean lespedeza		1
4	44%	<i>Rumex obtusifolius</i> *	bitter dock	R	
4	44%	<i>Erigeron canadensis</i>	horseweed		
4	44%	<i>Trifolium repens</i> *	white clover		
4	44%	<i>Solanum carolinense</i>	horsenettle	R	
4	44%	<i>Rhus glabra</i>	smooth sumac		
3	33%	<i>Ailanthus altissima</i> *	tree-of-heaven		1
3	33%	<i>Sorghum halapense</i> *	Johnsongrass	P	1

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-B . Top 30 most frequently occurring plant species found at qualitative sampling sites (n=15) along I-81, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
15	100%	<i>Festuca arundinacea</i> *	tall fescue		
15	100%	<i>Aster sp.</i>	aster		
14	93%	<i>Cichorium intybus</i> *	chickory		3
14	93%	<i>Daucus carota</i> *	wild carrot		3
14	93%	<i>Juniperus virginiana</i>	eastern redcedar		
14	93%	<i>Solidago sp.</i>	goldenrod		
13	87%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
13	87%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
13	87%	<i>Setaria viridis</i> *	green foxtail		2
13	87%	<i>Rubus sp.</i>	blackberry		
13	87%	<i>Solanum carolinense</i>	horsenettle	R	
12	80%	<i>Centaurea maculosa</i> *	spotted knapweed		
12	80%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
11	73%	<i>Trifolium pratense</i> *	red clover		
11	73%	<i>Andropogon virginicus</i>	broomsedge		
10	67%	<i>Cirsium vulgare</i> *	bull thistle		2
10	67%	<i>Potentilla recta</i> *	sulfur cinquefoil		
10	67%	<i>Taraxacum officinale</i> *	dandelion		
9	60%	<i>Setaria (glauca) pumila</i> *	yellow foxtail		
9	60%	<i>Ambrosia artemisiifolia</i>	common ragweed		
9	60%	<i>Verbesina altissima</i>	tall ironweed		
8	53%	<i>Melilotus alba</i> *	white sweet clover		2
8	53%	<i>Allium vineale</i> *	field garlic	R	2
8	53%	<i>Paspalum dilatatum</i> *	dallis grass		
8	53%	<i>Eragrostis curvula</i> *	weeping lovegrass		
8	53%	<i>Euphorbia maculata</i>	spotted spurge		
8	53%	<i>Toxicodendron radicans</i>	poison ivy		
8	53%	<i>Cirsium discolor</i>	field thistle		
8	53%	<i>Erigeron sp.</i>			
7	47%	<i>Sorghum halapense</i> *	Johnsongrass	P	1

*-exotic species

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2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-C. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=5) along TN840, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
5	100%	<i>Coronilla varia</i> *	crown vetch		2
5	100%	<i>Festuca arundinacea</i> *	tall fescue		
5	100%	<i>Ambrosia artemisiifolia</i>	common ragweed		
5	100%	<i>Aster sp.</i>	aster		
4	80%	<i>Setaria viridis</i> *	green foxtail		2
4	80%	<i>Croton monanthogynus</i>	prairie tea		
4	80%	<i>Solidago sp.</i>	goldenrod		
4	80%	<i>Cirsium discolor</i>	field thistle		
4	80%	<i>Rumex crispus</i> *	curly dock	R	
4	80%	<i>Grindelia lanceolata</i>	lanceleaf gumweed		
4	80%	<i>Lactuca scariola</i> *	prickly lettuce		
4	80%	<i>Melilotus alba</i> *	white sweet clover		
4	80%	<i>Oenothera biennis</i>	biennial evening primrose		
3	60%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
3	60%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
3	60%	<i>Carduus nutans</i> *	musk thistle	R	1
3	60%	<i>Daucus carota</i> *	wild carrot		3
3	60%	<i>Allium vineale</i> *	field garlic		
3	60%	<i>Kummerowia stipulacea</i> *	Korean lespedeza		
3	60%	<i>Euphorbia maculata</i>	spotted spurge		
3	60%	<i>Setaria faberii</i> *	giant foxtail		
3	60%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
3	60%	<i>Erigeron canadensis</i>	horseweed		
3	60%	<i>Panicum capillare</i>	witchgrass		
3	60%	<i>Polygonum pensylvanicum</i>	Pennsylvania smartweed		
3	60%	<i>Pyrrhopappus carolinianus</i>	Carolina false dandelion		
3	60%	<i>Eupatorium serotinum</i>	lateflowering thoroughwort		
2	40%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
2	40%	<i>Cichorium intybus</i> *	chickory		
2	40%	<i>Xanthium strumarium</i> *	common cocklebur		

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-D. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=4) along I-155, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
4	100%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
4	100%	<i>Festuca arundinacea</i> *	tall fescue		
4	100%	<i>Cynodon dactylon</i> *	bermuda grass		
4	100%	<i>Aster sp.</i>	aster		
3	75%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
3	75%	<i>Daucus carota</i> *	wild carrot		3
3	75%	<i>Digitaria sanguinalis</i> *	large crabgrass		
3	75%	<i>Paspalum dilatatum</i> *	dallis grass		
3	75%	<i>Setaria viridis</i> *	green foxtail		2
3	75%	<i>Oxalis stricta</i> *	yellow wood-sorrel		
3	75%	<i>Senna obtusifolia</i> *	sicklepod	P	3
3	75%	<i>Eragrostis pectinacea</i> *	lovegrass		
3	75%	<i>Tridens flavus</i>	purpletop		
3	75%	<i>Solidago sp.</i>	goldenrod		
3	75%	<i>Toxicodendron radicans</i>	poison ivy		
3	75%	<i>Toxicodendron toxicarium</i>	poison oak		
3	75%	<i>Vitis sp.</i>	grapevine		
3	75%	<i>Cirsium discolor</i>	field thistle		
2	50%	<i>Chloris virgata</i> *	feather finger grass		
2	50%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
2	50%	<i>Trifolium pratense</i> *	red clover		
2	50%	<i>Allium vineale</i> *	field garlic		2
2	50%	<i>Kummerowia stipulacea</i> *	Korean lespedeza		2
2	50%	<i>Sida spinosa</i> *	prickly sida		
2	50%	<i>Xanthium strumarium</i> *	common cocklebur	R	3
2	50%	<i>Amaranthus retroflexus</i> *	red-root pigweed		
2	50%	<i>Dactylis glomerata</i> *	orchardgrass		
2	50%	<i>Setaria (glauca) pumila</i> *	yellow foxtail		
2	50%	<i>Triticum aestivum</i> *	wheat		
2	50%	<i>Solanum carolinense</i>	horsenettle	R	

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-E. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=35) along I-24, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
32	91%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
31	89%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
29	83%	<i>Setaria viridis</i> *	green foxtail		2
29	83%	<i>Cynodon dactylon</i> *	bermuda grass		
29	83%	<i>Ambrosia artemisiifolia</i>	common ragweed		
29	83%	<i>Aster sp.</i>	aster		
29	83%	<i>Rubus sp.</i>	blackberry		
28	80%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
27	77%	<i>Festuca arundinacea</i> *	tall fescue		
26	74%	<i>Paspalum dilatatum</i> *	dallis grass		
25	71%	<i>Solidago sp.</i>	goldenrod		
24	69%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
24	69%	<i>Croton monanthogynus</i>	prairie tea		
22	63%	<i>Daucus carota</i> *	wild carrot		3
22	63%	<i>Euphorbia maculata</i>	spotted spurge		
21	60%	<i>Setaria (glauca) pumila</i> *	yellow foxtail		
21	60%	<i>Erigeron canadensis</i>	horseweed		
19	54%	<i>Campsis radicans</i>	trumpet creeper		
19	54%	<i>Euphorbia supina</i>	prostrate spurge		
19	54%	<i>Taraxacum officinale</i> *	dandelion		
19	54%	<i>Acalypha virginica</i>	Virginia copperleaf		
19	54%	<i>Erigeron sp.</i>			
18	51%	<i>Solanum carolinense</i>	horsenettle	R	
18	51%	<i>Euphorbia dentata</i>	tooth leaf spurge		
18	51%	<i>Bidens polylepis</i>			
17	49%	<i>Oxalis stricta</i> *	yellow wood-sorrel		
17	49%	<i>Helenium amarum</i>	bitter sneezeweed		
17	49%	<i>Vitis sp.</i>	grapevine		
17	49%	<i>Andropogon virginicus</i>	broomsedge		
16	46%	<i>Cirsium discolor</i>	field thistle		

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-F. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=84) along I-40, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
78	93%	<i>Aster sp.</i>	aster		
77	92%	<i>Solidago sp.</i>	goldenrod		
73	87%	<i>Ambrosia artemisiifolia</i>	common ragweed		
63	75%	<i>Lonicera japonica*</i>	Japanese honeysuckle		1
63	75%	<i>Lespedeza cuneata*</i>	sericea lespedeza		1
62	74%	<i>Plantago lanceolata*</i>	lanceleaf plantain	R	
61	73%	<i>Festuca arundinacea*</i>	tall fescue		
55	65%	<i>Setaria viridis*</i>	green foxtail		2
51	61%	<i>Sorghum halapense*</i>	Johnsongrass	P	1
50	60%	<i>Rubus sp.</i>	blackberry		
49	58%	<i>Erigeron canadensis</i>	horseweed		
47	56%	<i>Digitaria sanguinalis*</i>	large crabgrass		
47	56%	<i>Daucus carota*</i>	wild carrot		3
47	56%	<i>Paspalum dilatatum*</i>	dallis grass		
47	56%	<i>Cirsium discolor</i>	field thistle		
47	56%	<i>Euphorbia maculata</i>	spotted spurge		
44	52%	<i>Cynodon dactylon*</i>	bermuda grass		
44	52%	<i>Andropogon virginicus</i>	broomsedge		
42	50%	<i>Acalypha virginica</i>	Virginia copperleaf		
42	50%	<i>Oxalis stricta*</i>	yellow wood-sorrel		
39	46%	<i>Taraxacum officinale*</i>	dandelion		
35	42%	<i>Vitis sp.</i>	grapevine		
34	40%	<i>Solanum carolinense</i>	horsenettle	R	
32	38%	<i>Microstegium vimineum*</i>	Nepal grass		1
31	37%	<i>Trifolium pratense*</i>	red clover		
29	35%	<i>Toxicodendron radicans</i>	poison ivy		
27	32%	<i>Cirsium vulgare*</i>	bull thistle		2
26	31%	<i>Campsis radicans</i>	trumpet creeper		
26	31%	<i>Ligustrum sp.*</i>	privet		1
25	30%	<i>Rumex crispus*</i>	curly dock	R	

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-G. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=26) along I-65, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
23	88%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
23	88%	<i>Setaria viridis</i> *	green foxtail		2
20	77%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
20	77%	<i>Festuca arundinacea</i> *	tall fescue		
20	77%	<i>Ambrosia artemisiifolia</i>	common ragweed		
19	73%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
18	69%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
18	69%	<i>Setaria (glauca) pumila</i> *	yellow foxtail		
18	69%	<i>Solidago</i> sp.	goldenrod		
18	69%	<i>Euphorbia maculata</i>	spotted spurge		
17	65%	<i>Paspalum dilatatum</i> *	dallis grass		
17	65%	<i>Croton monanthogynus</i>	prairie tea		
16	62%	<i>Digitaria sanguinalis</i> *	large crabgrass		
16	62%	<i>Solanum carolinense</i>	horsenettle	R	
16	62%	<i>Passiflora incarnata</i>	maypops		
15	58%	<i>Acalypha virginica</i>	Virginia copperleaf		
15	58%	<i>Cirsium discolor</i>	field thistle		
15	58%	<i>Aster</i> sp.	aster		
14	54%	<i>Vitis</i> sp.	grapevine		
14	54%	<i>Rubus</i> sp.	blackberry		
14	54%	<i>Eupatorium serotinum</i>	lateflowering thoroughwort		
13	50%	<i>Cynodon dactylon</i> *	bermuda grass		
13	50%	<i>Erigeron canadensis</i>	horseweed		
12	46%	<i>Campsip</i> radicans	trumpet creeper		
12	46%	<i>Oxalis stricta</i> *	yellow wood-sorrel		
12	46%	<i>Vernonia altissima</i>	ironweed		
11	42%	<i>Eleusine indica</i> *	goosegrass		
10	38%	<i>Carduus nutans</i> *	musk thistle	R	1
10	38%	<i>Daucus carota</i> *	wild carrot		3
10	38%	<i>Andropogon virginicus</i>	broomsedge		

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix IV-H. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=24) along I-75, Fall 1997.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
23	96%	<i>Aster sp.</i>	aster		
21	88%	<i>Solidago sp.</i>	goldenrod		
20	83%	<i>Rubus sp.</i>	blackberry		
19	79%	<i>Plantago lanceolata*</i>	lanceleaf plantain	R	
19	79%	<i>Festuca arundinacea*</i>	tall fescue		
19	79%	<i>Solanum carolinense</i>	horsenettle	R	
18	75%	<i>Ambrosia artemisiifolia</i>	common ragweed		
17	71%	<i>Lonicera japonica*</i>	Japanese honeysuckle		1
17	71%	<i>Taraxacum officinale*</i>	dandelion		
17	71%	<i>Cichorium intybus*</i>	chickory		2
16	67%	<i>Setaria viridis*</i>	green foxtail		2
15	63%	<i>Lespedeza cuneata*</i>	sericea lespedeza		1
15	63%	<i>Euphorbia maculata</i>	spotted spurge		
14	58%	<i>Paspalum dilatatum*</i>	dallis grass		
14	58%	<i>Vernonia altissima</i>	ironweed		
13	54%	<i>Sorghum halapense*</i>	Johnsongrass	P	1
13	54%	<i>Daucus carota*</i>	wild carrot		3
13	54%	<i>Cirsium vulgare*</i>	bull thistle		2
13	54%	<i>Rhus glabra</i>	smooth sumac		
12	50%	<i>Cirsium discolor</i>	field thistle		
12	50%	<i>Andropogon virginicus</i>	broomsedge		
11	46%	<i>Tridens flavus</i>	purpletop		
10	42%	<i>Microstegium vimineum*</i>	Nepal grass		1
10	42%	<i>Ligustrum sp.*</i>	privet		1
10	42%	<i>Digitaria sanguinalis*</i>	large crabgrass		
10	42%	<i>Acalypha virginica</i>	Virginia copperleaf		
9	38%	<i>Oxalis stricta*</i>	yellow wood-sorrel		
9	38%	<i>Campsis radicans</i>	trumpet creeper		
9	38%	<i>Prunella vulgaris*</i>	heal all		
8	33%	<i>Centaurea maculosa*</i>	spotted knapweed		2

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

APPENDIX V

**TOP 30 MOST FREQUENTLY
OCCURRING PLANT SPECIES
FOUND AT QUALITATIVE
SAMPLING SITES
ALONG EACH
INTERSTATE**

SPRING 1998

Appendix V-A. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=5) along TN840, Spring 1998.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
5	100%	<i>Carduus nutans</i> *	musk thistle	R	1
5	100%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
5	100%	<i>Bromus tectorum</i> *	downy brome		
5	100%	<i>Festuca arundinacea</i> *	tall fescue		
5	100%	<i>Daucus carota</i> *	wild carrot		3
5	100%	<i>Lactuca serriola</i> *	prickly lettuce		
5	100%	<i>Juniperus virginianum</i>	eastern redcedar		
5	100%	<i>Aster sp.</i>	aster		
4	80%	<i>Rosa multiflora</i> *	multiflora rose		1
4	80%	<i>Coronilla varia</i> *	crown vetch		2
4	80%	<i>Lolium multiflorum</i> *	Italian ryegrass		
4	80%	<i>Cirsium discolor</i>	field thistle		
4	80%	<i>Erigeron annuus</i>	daisy fleabane		
4	80%	<i>Ranunculus sp.</i>	buttercup		
4	80%	<i>Arenaria patula</i>	glade sandwort		
4	80%	<i>Solidago sp.</i>	goldenrod		
4	80%	<i>Eupatorium serotinum</i>	lateflowering thoroughwort		
4	80%	<i>Pyrhropappus carolinianus</i>	Carolina false dandelion		
3	60%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
3	60%	<i>Hordeum pusillum</i> *	little barley		
3	60%	<i>Trifolium campestre</i> *	hop clover		
3	60%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
3	60%	<i>Allium vineale</i> *	field garlic	R	
3	60%	<i>Trifolium pratense</i> *	red clover		
3	60%	<i>Melilotus alba</i> *	white sweet clover		2
3	60%	<i>Oenothera biennis</i>	common evening primrose		
3	60%	<i>Solanum carolinense</i>	horsenettle		
3	60%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
3	60%	<i>Ambrosia artemisiifolia</i>	common ragweed		
3	60%	<i>Kummerowia stipulacea</i> *	Korean lespedeza		3

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Appendix V-B. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=4) along I-155, Spring 1998.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
4	100%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
4	100%	<i>Festuca arundinacea</i> *	tall fescue		
4	100%	<i>Cynodon dactylon</i> *	bermuda grass		
4	100%	<i>Trifolium pratense</i> *	red clover		
4	100%	<i>Lolium multiflorum</i>	Italian ryegrass		
4	100%	<i>Erigeron annuus</i>	daisy fleabane		
4	100%	<i>Solanum carolinense</i>	horsenettle		
4	100%	<i>Vitis sp.</i>	grapevine		
4	100%	<i>Crataegus sp.</i>	hawthorn		
4	100%	<i>Celtis occidentalis</i>	hackberry		
3	75%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
3	75%	<i>Dactylis glomerata</i> *	orchardgrass		
3	75%	<i>Cirsium discolor</i>	field thistle		
3	75%	<i>Desmanthus illinoensis</i>	prairie mimosa		
3	75%	<i>Lathyrus hirsutus</i> *	caley pea		
3	75%	<i>Lepidium virginianum</i>	Virginia pepperweed		
3	75%	<i>Toxicodendron radicans</i>	poison ivy		
3	75%	<i>Rubus sp.</i>	blackberry		
3	75%	<i>Solidago sp.</i>	goldenrod		
3	75%	<i>Robinia pseudo-acacia</i>	black locust		
3	75%	<i>Vernonia altissima</i>	ironweed		
3	75%	<i>Torilis arvensis</i> *	hedge parsley		2
2	50%	<i>Eragrostis pectinacea</i> *	feathery lovegrass		
2	50%	<i>Digitaria sanguinalis</i> *	large crabgrass		
2	50%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
2	50%	<i>Bromus japonicus</i> *	Japanese brome		
2	50%	<i>Toxicodendron toxicarium</i>	poison oak		
2	50%	<i>Setaria (glauca) pumila</i> *	yellow foxtail		2
2	50%	<i>Daucus carota</i> *	wild carrot		3
2	50%	<i>Bromus tectorum</i> *	downy brome	R	2

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix V-C. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=10) along I-181/US 23, Spring 1998.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
9	90	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
9	90	<i>Festuca arundinacea</i> *	tall fescue		
9	90	<i>Dactylis glomerata</i> *	orchardgrass		
9	67	<i>Trifolium pratense</i> *	red clover		
9	90	<i>Rubus</i> sp.	blackberry		
9	90	<i>Solidago</i> sp.	goldenrod		
9	90	<i>Lepidium virginianum</i>	Virginia pepperweed		
8	80	<i>Trifolium campestre</i> *	hop clover		
8	80	<i>Cirsium vulgare</i> *	bull thistle	R	2
7	83	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
7	70	<i>Bromus</i> sp.*	brome	R	2
7	58	<i>Lactuca serriola</i> *	prickly lettuce		
7	70	<i>Daucus carota</i> *	wild carrot		
6	60	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
6	60	<i>Cichorium intybus</i> *	chickory		3
6	60	<i>Coronilla varia</i> *	crown vetch		2
6	60	<i>Erigeron</i> sp.			
6	60	<i>Plantago major</i>	plantain		
6	60	<i>Medicago lupulina</i> *	black medic		
6	60	<i>Stellaria media</i> *	chickweed		
6	60	<i>Robinia pseudo-acacia</i>	black locust		
6	60	<i>Geranium carolinianum</i>	Carolina geranium		
5	50	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
5	50	<i>Verbascum thapsus</i> *	woolly mullein		2
5	50	<i>Poa pratensis</i> *	Kentucky bluegrass		
5	50	<i>Ambrosia artemisiifolia</i>	common ragweed		
5	50	<i>Potentilla recta</i> *	sulfur cinquefoil		
5	50	<i>Taraxacum officinale</i> *	dandelion		
5	50	<i>Sonchus asper</i> *	prickly sow thistle		
5	50	<i>Rosa multiflora</i> *	multiflora rose		1

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, 3 = Lesser threat, and 4 = Watch list.

Appendix V-D. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=34) along I-24, Spring 1998.

No. Sites	% Occurrence	Species	Common Name	TN-State Nox. Weed ¹	TN-EPPC Rank ²
31	91	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
29	85	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
29	85	<i>Bromus sp.</i> *	brome	R	2
29	85	<i>Festuca arundinacea</i> *	tall fescue		2
28	82	<i>Juniperus virginiana</i>	eastern redcedar		
26	76	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
25	74	<i>Dactylis glomerata</i> *	orchardgrass		
24	71	<i>Medicago lupulina</i> *	black medic		
23	68	<i>Daucus carota</i> *	wild carrot		3
23	68	<i>Lactuca serriola</i> *	prickly lettuce		
23	68	<i>Geranium carolinianum</i>	Carolina geranium		
23	68	<i>Rubus sp.</i>	blackberry		
22	65	<i>Hordeum pusillum</i> *	barley		
22	65	<i>Celtis laevigata</i>	sugarberry		
22	65	<i>Vitis sp.</i>	grapevine		
22	65	<i>Erigeron annuus</i>	daisy fleabane		
21	62	<i>Sorghum halapense</i> *	Johnsongrass	P	1
21	62	<i>Ranunculus sp.</i> *	buttercup		
21	62	<i>Toxicodendron radicans</i>	poison ivy		
20	59	<i>Carduus nutans</i> *	musk thistle	R	1
20	59	<i>Lepidium virginianum</i>	Virginia pepperweed		
19	56	<i>Vicia sativa ssp. nigra</i>	narrowleaved vetch		
19	56	<i>Cirsium discolor</i>	field thistle		2
18	53	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
18	53	<i>Taraxacum officinale</i> *	dandelion		
17	50	<i>Solidago sp.</i>	goldenrod		
16	47	<i>Ambrosia artemisiifolia</i>	common ragweed		
16	47	<i>Poa pratensis</i> *	Kentucky bluegrass		
15	44	<i>Melilotus officinalis</i> *	yellow sweet clover		2
15	44	<i>Rumex crispus</i> *	curly dock		

* -exotic species

1 -Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2 -Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix V-E. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=26) along I-65, Spring 1998.

No. Sites	% Occurrence	Species	Common name	TN-State Noxious Weed ¹	TN-EPPC rank ²
25	96%	<i>Bromus tectorum*</i>	downy brome	R	2
25	96%	<i>Festuca arundinacea*</i>	tall fescue		
24	92%	<i>Carduus nutans*</i>	musk thistle	R	1
23	88%	<i>Celtis occidentalis</i>	hackberry		
22	85%	<i>Geranium carolinianum</i>	Carolina geranium		
21	81%	<i>Lonicera japonica*</i>	Japanese honeysuckle		1
21	81%	<i>Plantago lanceolata*</i>	lanceleaf plantain	R	
21	81%	<i>Sorghum halapense*</i>	Johnsongrass	P	1
18	69%	<i>Cirsium discolor</i>	field thistle		
18	69%	<i>Hordeum pusillum*</i>	little barley		
18	69%	<i>Juniperus virginiana</i>	eastern redcedar		
18	69%	<i>Rubus sp.</i>	blackberry		
18	69%	<i>Toxicodendron radicans</i>	poison ivy		
18	69%	<i>Vitis sp.</i>	grapevine		
17	65%	<i>Dactylis glomerata*</i>	orchardgrass		
17	65%	<i>Poa pratensis*</i>	Kentucky bluegrass		
16	62%	<i>Daucus carota*</i>	wild carrot		3
16	62%	<i>Solidago sp.</i>	goldenrod		
15	58%	<i>Parthenocissus quinquefolia</i>	Virginia creeper		
14	54%	<i>Acer negundo</i>	boxelder		
14	54%	<i>Geranium dissectum*</i>	Carolina geranium		
14	54%	<i>Lactuca serriola*</i>	prickly lettuce		
14	54%	<i>Lespedeza cuneata*</i>	sericea lespedeza		1
14	54%	<i>Oxalis stricta*</i>	yellow wood-sorrel		
14	54%	<i>Symporicarpos orbiculatus</i>	coral berry		
14	54%	<i>Taraxacum officinale*</i>	dandelion		
14	54%	<i>Trifolium campestre*</i>	low hop clover		
12	46%	<i>Campsis radicans</i>	trumpet creeper		
12	46%	<i>Lolium multiflorum*</i>	Italian ryegrass		
12	46%	<i>Sonchus asper*</i>	prickly sow thistle		

* - Exotic species

1 - Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed

2 - Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix V-F. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=87) along I-40, Spring 1998.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
76	87%	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
75	86%	<i>Festuca arundinacea</i> *	tall fescue		
64	74%	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
61	70%	<i>Bromus tectorum</i> *	downy brome	R	2
59	68%	<i>Rubus sp.</i>	blackberry		
59	68%	<i>Solidago sp.</i>	goldenrod		
57	66%	<i>Daucus carota</i> *	wild carrot		3
57	66%	<i>Juniperus virginiana</i>	eastern redcedar		
56	64%	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
56	53%	<i>Lactuca serriola</i> *	prickly lettuce		
56	64%	<i>Parthenocissus quinquefolia</i>	Virginia creeper		
54	62%	<i>Vitis sp.</i>	grapevine		
49	56%	<i>Sorghum halapense</i> *	Johnsongrass	P	1
47	54%	<i>Toxicodendron radicans</i>	poison ivy		
46	53%	<i>Ambrosia artemisiifolia</i>	common ragweed		
44	51%	<i>Cirsium discolor</i>	field thistle		2
43	49%	<i>Allium vineale</i> *	field garlic	R	
43	49%	<i>Geranium carolinianum</i>	Carolina geranium		
43	49%	<i>Hordeum pusillum</i> *	little barley		
42	48%	<i>Medicago lupulina</i> *	black medic		
41	47%	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
41	47%	<i>Oxalis stricta</i> *	yellow wood-sorrel		
40	46%	<i>Sonchus asper</i> *	prickly sow thistle		
39	45%	<i>Erigeron annuus</i>	daisy fleabane		
37	47%	<i>Dactylis glomerata</i> *	orchardgrass		
37	43%	<i>Rumex crispus</i> *	curly dock		
36	41%	<i>Trifolium pratense</i> *	red clover		
36	41%	<i>Taraxacum officinale</i> *	dandelion		1
36	41%	<i>Cynodon dactylon</i> *	bermuda grass		
35	40%	<i>Lepidium virginianum</i> *	Virginia pepperweed		2

*-exotic species

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2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix V-G. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=25) along I-75, Spring 1998.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
23	92	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
23	92	<i>Festuca arundinacea</i> *	tall fescue		
21	84	<i>Cichorium intybus</i> *	chickory		3
20	80	<i>Rubus</i> sp.	blackberry		
19	76	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
19	76	<i>Lepidium virginianum</i>	Virginia pepperweed		
17	68	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
17	68	<i>Trifolium pratense</i> *	red clover		
17	68	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
17	68	<i>Dactylis glomerata</i> *	orchardgrass		
17	68	<i>Bromus tectorum</i> *	downy brome	R	2
17	68	<i>Solanum carolinense</i>	horsenettle	R	
17	68	<i>Solidago</i> sp.	goldenrod		
16	64	<i>Medicago lupulina</i> *	black medic		
16	64	<i>Juniperus virginiana</i>	eastern redcedar		
16	64	<i>Ambrosia artemisiifolia</i>	common ragweed		
16	64	<i>Toxicodendron radicans</i>	poison ivy		
15	60	<i>Daucus carota</i> *	wild carrot		3
15	60	<i>Lactuca serriola</i> *	prickly lettuce		
15	60	<i>Trifolium campestre</i> *	low hop clover		
15	60	<i>Erigeron annuus</i>	daisy fleabane		
14	56	<i>Cirsium vulgare</i> *	bull thistle		2
14	56	<i>Cirsium discolor</i>	field thistle		2
14	56	<i>Trifolium repens</i> *	white clover		
14	56	<i>Aster</i> sp.	aster		2
13	52	<i>Plantago major</i>	plantain		
13	52	<i>Sonchus asper</i> *	prickly sow thistle		
12	48	<i>Rosa multiflora</i> *	multiflora rose		1
12	48	<i>Taraxicum officinale</i> *	dandelion		
12	48	<i>Allium vineale</i> *	field garlic	R	2

*-exotic species

1-Tennessee State Noxious Weed categories: P = prohibited in seed, R = restricted in seed.

2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

Appendix V-H. Top 30 most frequently occurring plant species found at qualitative sampling sites (n=10) along I-181/US 23, Spring 1998.

No. sites	% Occurrence	Species	Common name	TN-State Nox.weed ¹	TN-EPPC rank ²
9	90	<i>Plantago lanceolata</i> *	lanceleaf plantain	R	
9	90	<i>Festuca arundinacea</i> *	tall fescue		
9	90	<i>Dactylis glomerata</i> *	orchardgrass		
9	67	<i>Trifolium pratense</i> *	red clover		
9	90	<i>Rubus sp.</i>	blackberry		
9	90	<i>Solidago sp.</i>	goldenrod		
9	90	<i>Lepidium virginianum</i>	Virginia pepperweed		
8	80	<i>Trifolium campestre</i> *	hop clover		
8	80	<i>Cirsium vulgare</i> *	bull thistle	R	2
7	83	<i>Chrysanthemum leucanthemum</i> *	ox-eye daisy		2
7	70	<i>Bromus sp.</i> *	brome	R	2
7	58	<i>Lactuca serriola</i> *	prickly lettuce		
7	70	<i>Daucus carota</i> *	wild carrot		
6	60	<i>Lonicera japonica</i> *	Japanese honeysuckle		1
6	60	<i>Cichorium intybus</i> *	chickory		3
6	60	<i>Coronilla varia</i> *	crown vetch		2
6	60	<i>Erigeron sp.</i>			
6	60	<i>Plantago major</i>	plantain		
6	60	<i>Medicago lupulina</i> *	black medic		
6	60	<i>Stellaria media</i> *	chickweed		
6	60	<i>Robinia pseudo-acacia</i>	black locust		
6	60	<i>Geranium carolinianum</i>	Carolina geranium		
5	50	<i>Lespedeza cuneata</i> *	sericea lespedeza		1
5	50	<i>Verbascum thapsus</i> *	woolly mullein		2
5	50	<i>Poa pratensis</i> *	Kentucky bluegrass		
5	50	<i>Ambrosia artemisiifolia</i>	common ragweed		
5	50	<i>Potentilla recta</i> *	sulfur cinquefoil		
5	50	<i>Taraxacum officinale</i> *	dandelion		
5	50	<i>Sonchus asper</i> *	prickly sow thistle		
5	50	<i>Rosa multiflora</i> *	multiflora rose		1

*-exotic species

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2-Tennessee Exotic Pest Plant Council rank of threat to natural areas: 1 = Severe threat, 2 = Significant threat, and 3 = Lesser threat.

